ORDER NO. VSD9404M633

Service Manual

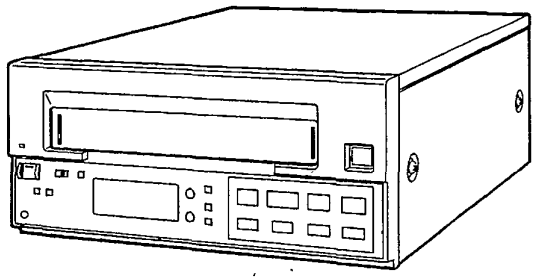
Video Cassette Recorder

Panasonic VHS Hi-Fi PAL

AG-5260-E -B

K-MECHANISM

Sec. 1 *Operating Instructions*
Sec. 2 *Disassembly Procedures*
Sec. 3 *Maintenance*
Sec. 4 *Electrical Adjustment*
Sec. 5 *Block Diagrams*
Sec. 6 *Schematic Diagram & Circuit Board Diagrams*
Sec. 7 *Exploded Views & Replacement Parts List*



Please use this manual together with the service manual for K-MECHANISM, Order No. VSD9402M632.

SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	SPECIFICATIONS
Power	Source: 220V~ 240V AC 50~ 60Hz Consumption: Approx. 19. Watts	Television System	CCIR Standard (625 lines, 50 fields) PAL Colour Signal
Video	Head: 2 rotary heads, helical scanning azimuth recording Luminance: FM recording Colour signal: Converted subcarrier phase shift recording Input Level: VIDEO IN (BNC) 1.0Vp-p, 75Ω Output Level: VIDEO OUT (BNC) 1.0Vp-p, 75Ω Signal-to-noide Ratio: 45dB (colour SP mode) Horizontal Resolution: 240 lines (colour)	Tape Speed	SP: 23.39mm/s LP: 11.695mm/s Playback Time: 180min. with NV-E180 used in SP mode FF/REW Time: Approx. 3min. with NV-E180
		Tape Format	Tape width 1/2" (12.7mm) high density VHS tape
		Operating Condition	Temperature: 5℃~ 40℃ Humidity: 35%~ 80%
Audio	Head: Normal Audio/Control: 1 stationary head Hi-Fi Audio: 2 rotary heads Erase: 1 full track erase 1 Audio track erase Track: 2 tracks (Hi-Fi), 1 track (Normal) Input Level: LINE IN (PHONO × 2) −8dBv, 47kΩ unbalanced Output Level: LINE OUT (PHONO × 2) −8dBv, 1kΩ unbalanced Frequency Responce: Normal: 50Hz~ 10kHz (SP mode) Hi-Fi: 20Hz~ 20kHz (SP mode) Signal-to-Noise Ratio: Normal Audio: 43dB (SP mode)	Dimension	270mm (W) × 344.5mm (D) × 120mm (H)
		Weight	5.1kg
		Optional Accessories	Wired remote controller: AG-A11

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

INTRODUCTION

This Service manual contains the technical information which service personnel to understand and service the Panasonic VHS Video Cassette Recorder model AG-5260.
Please use this service manual together with the Service Manual for mechanical adjustments and maintenance procedures of K-Mechanism (Order No. VSD9402M632).

CONTENS

SECTION 1. OPERATING INSTRUCTION
1-1. Operating Instructions ····1-1
1-2. Service Information ····1-12
1-2-1. Emergency Cassette Removal ····1-12
1-2-2. Hour Meter Reset ····1-12
1-2-3. Auto Off Operation & Error code ····1-13
SECTION 2. DISASSEMBLY PROCEDURE
2-1. Disassembly Flow Chart ····2-1
2-2. Disassembly Method ····2-1
2-3. Dimension ····2-3
SECTION 3. MAINTENANCE
3-1. Maintenance Chart ····3-1
3-2. Parts Location ····3-2
SECTION 4. ELECTRICAL ADJUSTMENT
4-1. Test & Service Equipment ····4-1
4-2. Adjustment Procedure ····4-1
4-3. Mechanical Adjustment Information ····4-7
4-4. Circuit Board Layout ····4-7
SECTION 5. BLOCK DIAGRAM
5-1. Abbreviations ····BLK-1
5-2. Overall Block Diagram ····BLK-3
5-3. SYSTEM CONTROL & SERVO Block Diagram ····BLK-4
5-4. VIDEO (PLAY) Block Diagram ····BLK-5
5-5. VIDEO (REC) Block Diagram ····BLK-6
SECTION 6. SCHEMATIC DIAGRAM & CIRCUIT BOARD
6-1. MAIN C.B.A. ····SCM-1
6-2. VIDEO 1 Schematic Diagram ····SCM-2
6-3. VIDEO 2 Schematic Diagram ····SCM-2
6-4. S-VHS PB PACK Schematic Diagram ····SCM-3
6-5. SYSTEM CONTROL & SERVO Schematic Diagram ····SCM-3
6-6. Motor Drive Schematic Diagram ····SCM-4
6-7. AUDIO MAIN Schematic Diagram ····SCM-4
6-8. AUDIO C.B.A. ····SCM-5
6-9. AUDIO Schematic Diagram ····SCM-5
6-10. HEAD AMP PACK C.B.A. ····SCM-5
6-11. HEAD AMP PACK Schematic Diagram ····SCM-6
6-12. FRONT C.B.A. ····SCM-7
6-13. FRONT & FRONT JACK Schematic Diagram ····SCM-8
6-14. REAR JACK C.B.A. & S-VHS PB C.B.A. ····SCM-9
6-15. REAR JACK Schematic Diagram ····SCM-9
6-16. POWER 1 & 2 C.B.A. & POWER SUB C.B.A. ····SCM-10
6-17. POWER Schematic Diagram ····SCM-10
6-18. Interface Schematic Diagram ····SCM-11
6-19. MECHANISM CONNECTION C.B.A. ····SCM-11
6-20. Interconnection Schematic Diagram ····SCM-12
SECTION 7. EXPLODED VIEWS & PARTS LIST
7-1. Exploded View & Mechanical Replacement Parts List ····PARTS-1
7-2. Electrical Replacement Parts List ····PARTS-7

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads connectors, control shafts,etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2 M ohm.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15uF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

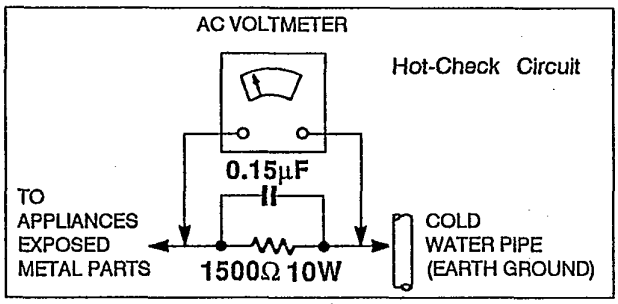


Figure 1

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as anti-static can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package untilimmediately before you are ready to install it. (Most replacementES devices are packaged with leads eletcrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all otner asfety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

IMPORTANT
"Unauthorized recording of copyrighted television programmes, films, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA ⓐ mark or the BSI mark ♆ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

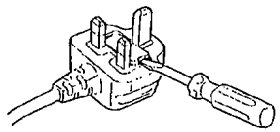
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

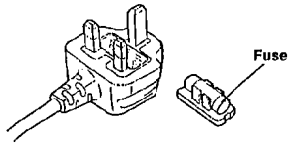
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



1—1

▭ is the safety information.

- **THIS APPARATUS MUST BE EARTHED.**
  To ensure safe operation the three-pin lead supplied must be connected only into a standard three-pin power point which is effectively earthed through the normal household wiring.
  Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
  The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.
- **DO NOT REMOVE PANEL COVER BY UNSCREWING.**
  To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- If the unit is not going to be used for length of time, turn the power OFF and disconnect the power plug from the AC outlet.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Remark:
This apparatus was produced to BS 800.
Dieses Modell entspricht der EG-Vorschrift (für Funkstörungsschutz) 87/308/EWG.
La Société PANASONIC-FRANCE, Importateur du matériel MATSUSHITA-JAPON déclare que cet appareil est conforme aux prescriptions de la directive 76/889/C.E.E. modifiée par la directive 87/308/C.E.E.
Dit model is onderworpen aan de EEG-richtlijn (ter voorkoming van radio-interferentie) 87/308/EEG.
Denne model opfylder EF direktiv 87/308/EF (for forebyggelse af radiointerferens).
La Società PANASONIC ITALIA S.p.A., importatrice di questo prodotto, dichiara che questo apparecchio è conforme alle disposizioni della direttiva C.E.E./87/308 (D.M. 13.4.1989).
Este modelo cumple con la norma EC (para interferencias de radio 87/308/EEC).

Thank you for purchasing the Panasonic AG-5260 Video Cassette Recorder.

Contents

Features 5
System Configurations 5
Controls 6
Connections with TV Monitor 8
Recording 9
Playback 10
Automatic Playback/Rewind 11
Counter 11
Repeat Playback 12
Series Playback 13
Dubbing 14
Audio Dubbing 15
Time Setting 16
Internal Timer Recording/Playback 17
Serial Remote Control 19
Remote Controller 20
External Timer Recording/Playback 20
Vertical Lock Adjustment 20
Cautions for Use 21
Troubleshooting 22
Table of Rear Panel Switch Operations 23
Specifications . . . . . Back cover

Inspections

- Remote Controller AG-A11
- Video Cassette Tape
  Use tapes complying with the VHS standard with this unit.
  Use of Panasonic video tapes is recommended for recording and playback.

Features

Recording and playback up to 3 or 6 hours
- Using a 1/2 inch VHS cassette tape, you can record and playback in both the SP (3-hour) and LP (6-hour) mode.

Hi-Fi Audio

Compact and light weight

Repeat playback
- Repeat playback can be performed from tape beginning to its end or from tape beginning to interruption of the video signal.

Search playback
- Locating any desired scene or position on the tape is made easy and fast by watching the tape being played back at about 11 times (SP mode) or 15 times (LP mode) normal speed in forward or reverse direction.

Cassette tape insertion/ejection in power OFF mode
- Cassette tape insertion and ejection can be performed even when the power has been turned OFF.

Auto power ON
- Power is turned ON automatically when the cassette tape is inserted in the unit or the power cord is connected to the AC outlet.

Clear picture in still and slow-motion modes

Playback in the S-VHS mode
- With this unit, it is available to playback S-VHS cassette tape (SP mode only).

Timer recording/playback
- Timer recording and playback can be performed by setting the timer start and end time besides the present time.

Built-in AGC (Automatic Gain Control) Circuit
- The video level can be adjusted at optimum level, and can be recorded at minimal distortion even with sudden and excessively high input levels.

Audio dubbing
- Audio dubbing can be performed onto the normal audio of the prerecorded tape.

External timer recording/playback
- External timer recording and playback can be performed using an external timer.

Automatic playback/rewind
- Playback or rewind starts automatically when the cassette tape is inserted in the unit.

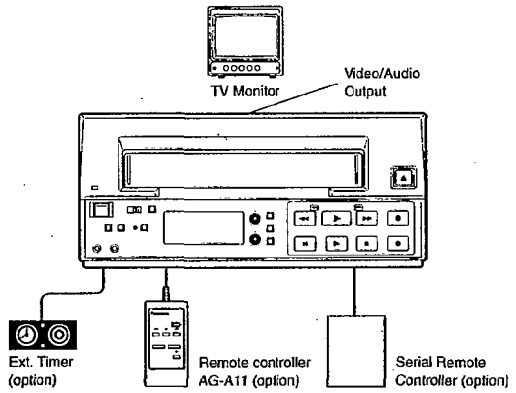
Series playback
- Repeat playback is available between 2 VTRs.

Remote operation
- Using an optional remote controller AG-A11, you can operate the unit about 5 meters away from the unit.

Serial remote operation

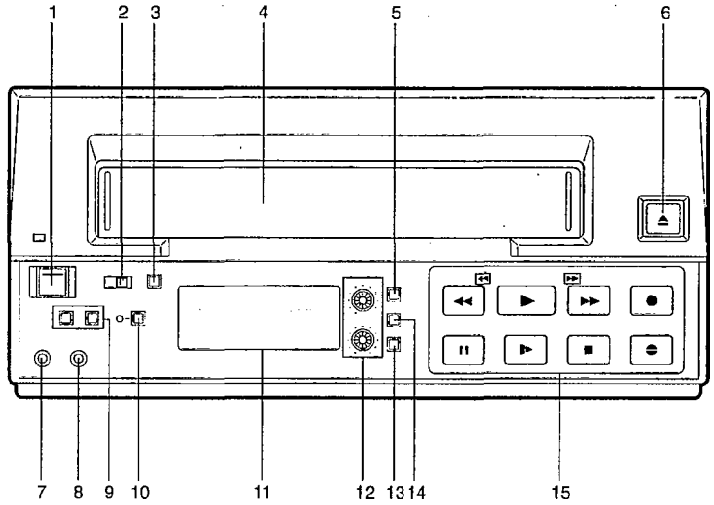
Automatic Tracking Function
- Tracking can be automatically adjusted by pressing the Tracking "–" and "+" Buttons simultaneously.

System Configurations



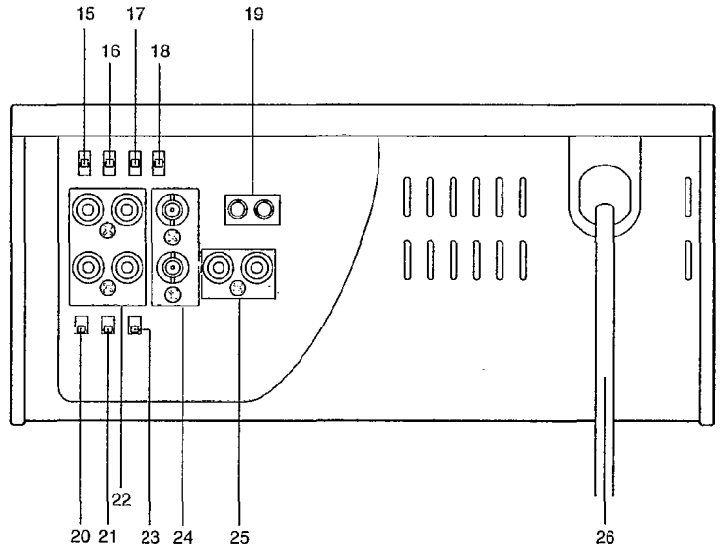
Controls

Front



No.	Name	Page	No.	Name	Page
1	VTR Switch	—	9	Tracking Buttons	10, 11
2	Timer Programme/Mode Lock Switch	10, 16 to 18	10	INT TIMER Switch	18
3	Audio Out Select Button	10, 11	11	Counter/Audio Level Meters	9, 11
4	Cassette Holder	—	12	Hi-Fi Audio Level Controls	9
5	Reset Button	11	13	Tape Speed Button	9
6	Eject Button	—	14	COUNTER MODE Button	11, 14
7	Remote Control Jack (Mini-Jack)	20	15	Operation Buttons REW, PLAY, FF, REC, PAUSE/STILL, SLOW, STOP, AUDIO DUB	9 – 18
8	Microphone Jack	9, 15			

Rear



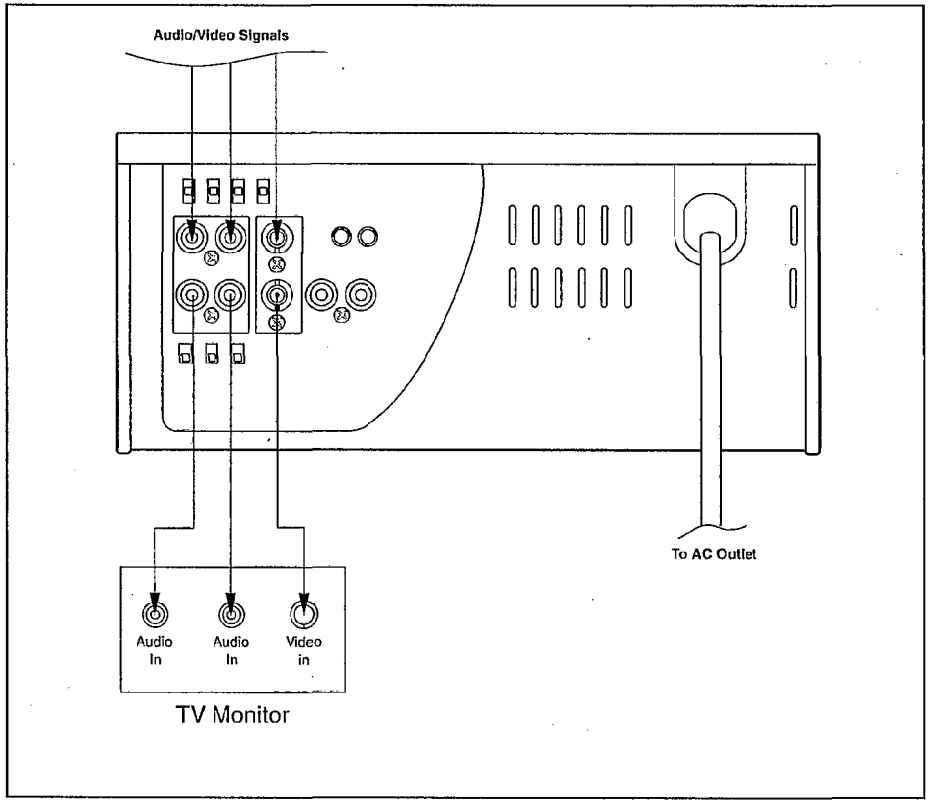
No.	Name	Page	No.	Name	Page
15	TAPE IN Switch	10, 11, 19	21	AGC Switch*	—
16	Timer Switch (Auto Repeat)	9 to 12 14, 15, 17 to 20	22	Audio CH1/CH2 IN/OUT Connectors (PHONO)	8, 9, 13 to 15
17	Auto Rewind Switch	10 to 13. 18, 19	23	TV System CCIR/PAL Switch**	9, 10
18	Serial/Series Playback Switch	13, 19	24	Video IN/OUT Connectors (BNC)	8, 9, 13, 14
19	V-Lock Controls	20	25	Remote IN/OUT Connectors (PHONO)	19
20	Edit Switch	14	26	Power Cord	—

* When this switch is set to ON, the recording level is adjusted automatically.

** This switch offers CCIR/PAL operations.
PAL: Recording and playback of PAL colour signal.
CCIR: Recording and playback of CCIR system.

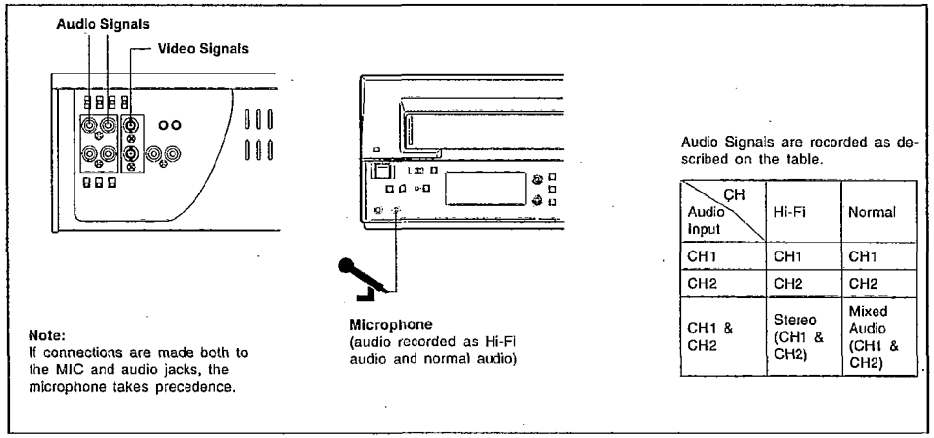
1—3

Connections with TV Monitor



1—4

Recording



Note:
If connections are made both to the MIC and audio jacks, the microphone takes precedence.

Audio Signals are recorded as described on the table.

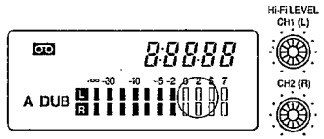
CH / Audio Input	Hi-Fi	Normal
CH1	CH1	CH1
CH2	CH2	CH2
CH1 & CH2	Stereo (CH1 & CH2)	Mixed Audio (CH1 & CH2)

Preparations

- Select the TV System CCIR/PAL Switch to the desired position.
- Set the Timer Switch and Edit Switch to "OFF".
- Load the pre-recorded cassette tape.
  (Make sure that the record safety tab on the cassette tape is intact.)

Audio Level Adjustment (Hi-Fi audio only)

- The audio level can be adjusted only for Hi-Fi audio. Adjust the Hi-Fi Audio CH1/CH2 Level Controls so that the audio level meter indication is set around 2 (so that the 2 level is not exceeded).



Tape Speed

- Press the Tape Speed Button to select the desired tape speed.

No indication (SP mode):	Standard mode (recording for approx. 180 minutes using an NV-E180 tape)
6H (LP mode):	Long play mode (recording for approx. 360 minutes using an NV-E180 tape)

Recording

- Recording starts when the REC and PLAY Buttons are pressed simultaneously.

> If the record safety tab on the cassette tape is not intact, the cassette tape will be ejected.

- When the PAUSE/STILL Button is used, the sequence of operation is as follows.

1. Playback the tape and find the location which is to be recorded. Then press the PAUSE/STILL Button. The "▮▮" indication will appear on the Counter and the unit is set to the playback pause mode.
2. Press the REC and PLAY Buttons simultaneously. The REC lamp now comes ON and the unit is set to the recording pause mode.
3. When the PAUSE/STILL Button is pressed again, the unit is released from the pause mode and recording begins.

Stopping Recording

- Press the STOP Button.

Mode Lock Function

Mode Lock Function makes it impossible to switch from one VTR operation to another. Setting the Timer Programme/Mode Lock Switch to "MODE LOCK", the Power Switch and Operation Buttons do not function. However, operations from the remote controller are available.

Playback

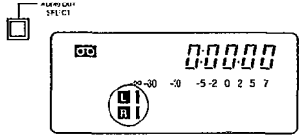
Preparation

- Select the TV System CCIR/PAL Switch to the desired position.
- Set the following switches to "OFF".
  - TAPE IN Switch
  - Timer Programme/Mode Lock Switch
  - Auto Rewind Switch
  - Timer Switch
- Insert a recorded tape.

Audio Out Select Button

- Set the Audio Out Select Button to the desired position. This is to select the audio signal through Audio CH1/CH2 OUT Connectors. Each time the Audio Out Select Button is pressed, the audio output mode will change as follows:

Hi-Fi → L CH → R CH → No indication (Linear)

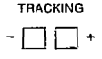


Tape Speed

- There is no need to set the tape speed since setting is automatically made to the speed which the tape was recorded.
- Noise may appear when playing back tapes recorded in LP mode.

Normal Playback

- Press the PLAY Button. "▶" indication will appear on the Counter and playback will start.
- Press the Tracking Buttons simultaneously if the image is partially obscured by bands of noise to move the noise out of the picture. If the noise persists, use the "–" or "+" Button for adjustment.



Double-speed Playback

- Press the PLAY Button during normal playback. The playback picture can be viewed at about twice normal playback speed. To return to normal playback, press the PLAY Button.
- No sound is heard during double-speed playback.

Slow Motion Playback

- Press the SLOW Button during playback. The playback picture can be viewed at a lower speed. Each time the SLOW Button is pressed, the unit will run at one of the slow motion speeds shown below. To return to normal playback, press the PLAY Button.

Normal
speed → 1/30 → 1/20 → 1/15 → 1/10 → 1/6

- If slow motion playback continues for over 10 minutes, the unit will go into stop mode automatically.
- No sound s heard during slow motion playback.

Search Playback

- When the FF or REW Button is held down while the unit is in the playback, slow motion playback or still, the tape will be played back in the forward or reverse direction at about 11 times normal speed in SP mode, and at about 15 times normal speed in LP mode.

Still Playback

- Press the PAUSE/STILL Button during normal playback or slow motion playback. Still playback will only return to normal playback mode by pressing the PAUSE/STILL Button once again.
- If noise appears during still playback, set for slow motion mode and adjust with the Tracking Control Buttons to minimize the bands of noise as shown below, then press the PAUSE/STILL Button.

- If still playback continues for more than 5 minutes, the unit will go into stop mode automatically.
- A distortion may occur on the picture during still mode, but this is not a malfunction.
- No sound is heard during still playback.
- Colour programme is played back in black and white and playback image may be dark during still mode, but this is not a malfunction.

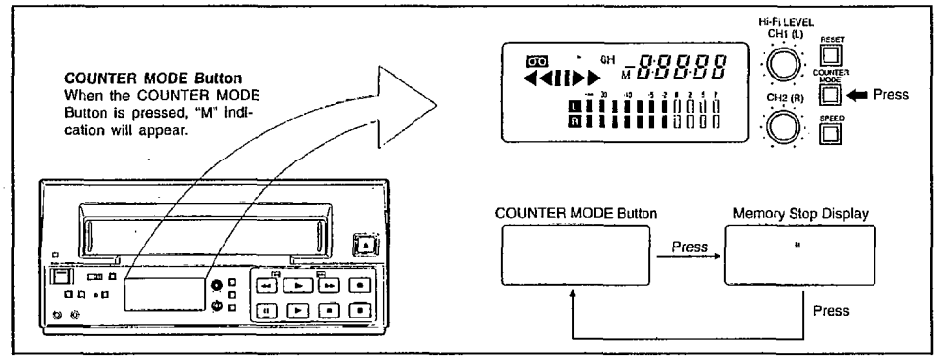
Automatic Playback/Rewind

- Set the Auto Rewind Switch and the Timer Switch to OFF.

❶ Set the TAPE IN Switch to "PLAY" or "REW".

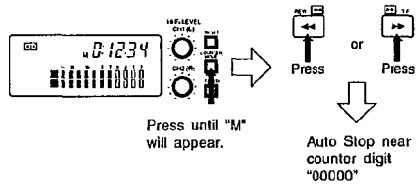
❷ Insert a cassette tape.
- *Automatic playback or rewind will start.*

Counter



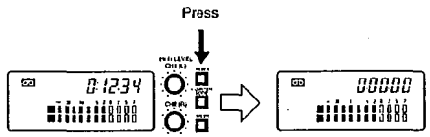
Memory Stop

When the COUNTER MODE Button is pressed and the "M" display lights on the Counter, the tape can be stopped near counter digit "00000" during FF or REW modes.



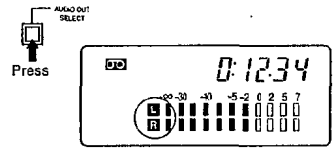
Counter Reset

Pressing the Reset Button clears the counter indication to "00000".



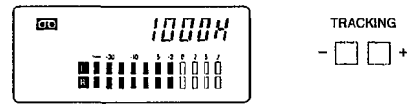
Audio Output

Each time the power is turned ON, Hi-Fi mode is automatically selected for audio output (L and R incications both appear on the Counter). Use the Audio Out Select Button to select for the desired audio output.



Hour Meter

When the Tracking Buttons are pressed simultaneously in stop mode, the total number of hours that the VTR has been used (the cylinder has turned) is indicated on the Counter.



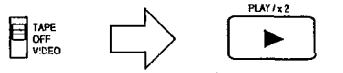
Repeat Playback

- Set the Timer Switch to "PLAY".
- Set the SERIAL/SERIES Playback Switch to "SERIAL".

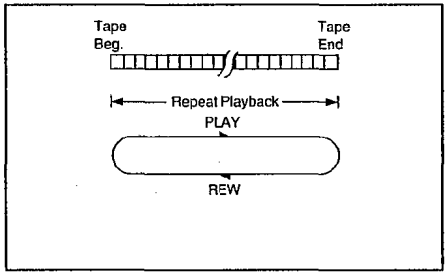
Repeat playback between tape beg. and tape end

If it is desired to playback the tape repeatedly from tape beginning to tape end, proceed as follows:

1. Set the Auto Rewind Switch to "TAPE".
2. Press the PLAY Button.



Rear panel — Press PLAY Button

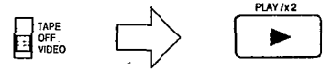


- "↻" indication will appear on the Counter when repeat playback setting is done.
- If a power failure occurs during this function, repeat playback will start after the power has been restored.

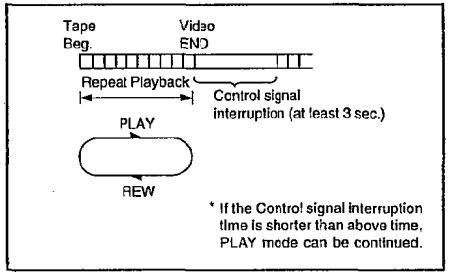
Repeat playback between tape beg. and video end

If it is desired to playback the tape repeatedly from tape beginning to interruption of the video signal, proceed as follows:

1. Set the Auto Rewind Switch to "VIDEO".
2. Press the PLAY Button.



Rear panel — Press PLAY Button



Notes:

- If short repeat playback is continued many times, the repeat section of tape may be damaged.
- Do not perform a memory operation during auto repeat playback. The tape will stop when "00000" is indicated on the counter.

The following Panasonic tapes are recommended for Repeat Playback use.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

Series Playback

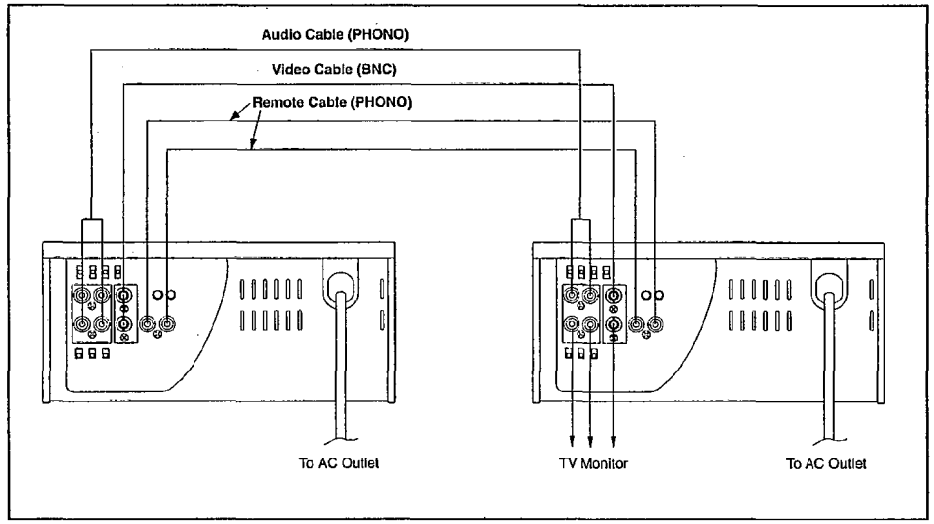
Connect two VTRs as shown below. When one of the VTR finishes playback, the other VTR starts playback. Setting the VTRs to auto rewind mode (selection of tape end or video signal end), repeat playback between one another is available.

- Set the Auto Rewind Switch to "TAPE" when performing repeat playback between tape beginning and tape end.
- Set the Auto Rewind Switch to "VIDEO" when performing repeat playback between tape beginning and end of video signal.
- If remote cable is not connected to the remote output connector of the VTR for subsequent playback, series playback will be performed only once.

Operations

1. Set the SERIAL/SERIES Playback Switch to "SERIES PB".
2. Insert the recorded tape.
3. Search for the desired playback beginning point for each VTR.
4. Press the PLAY Button of the VTR which is desired to be played back first.

Playback starts the same as repeat playback. For details, refer to the "Repeat Playback".



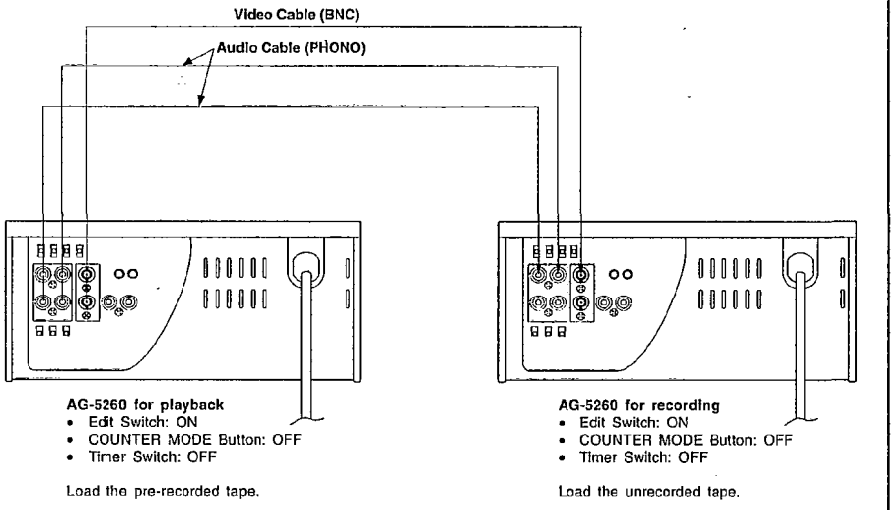
Note:
Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.

Use of Panasonic video tapes is recommended for series playback.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

Dubbing

- Refer to the figure below for the connections which apply when using two VTRs for dubbing.



Operation

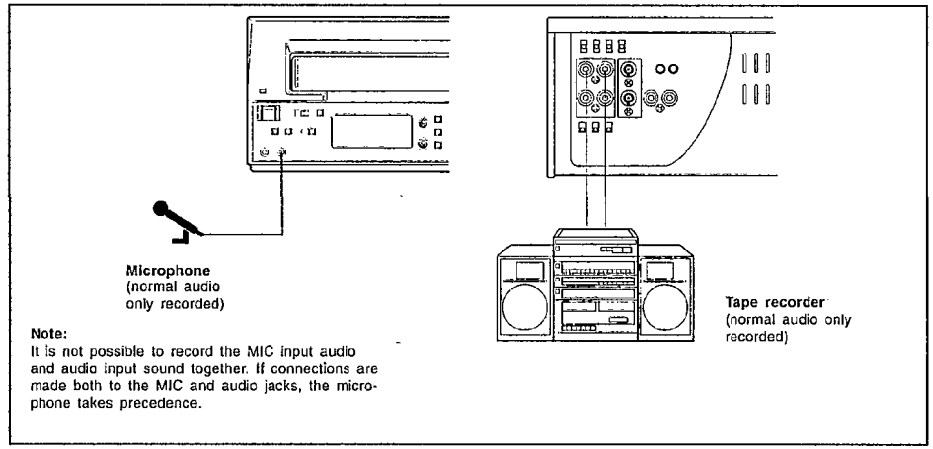
1. Press the PLAY Button on the playback VTR to start playback.
2. Press both the REC and PLAY Buttons on the recording VTR at the location where the dubbing is to begin, and proceed with dubbing.
3. To stop the dubbing, first press the STOP Button on the recording VTR and then press the STOP Button on the playback VTR.

- With 6-hour recording for dubbing purposes, use the unit with the Hi-Fi REC Switch at the OFF position.

Edit Switch
This switch is to minimize the distortion of the picture during dubbing.
- Set this switch to ON during dubbing.
- Be sure to set to OFF after dubbing.

Audio Dubbing

"Audio Dubbing" is a function which records the sound after the cassette tape has been recorded. The sound is recorded on the normal audio track (and not on the Hi-Fi audio tracks).



Note:
It is not possible to record the MIC input audio and audio input sound together. If connections are made both to the MIC and audio jacks, the microphone takes precedence.

Preparations

- Set the Timer Switch to the OFF position.
- Set the COUNTER MODE Button to OFF.
- Insert the recorded tape.
  (Make sure that the record safety tab is intact on the cassette tape. If not, the cassette tape will be ejected.)

Audio Monitor Output

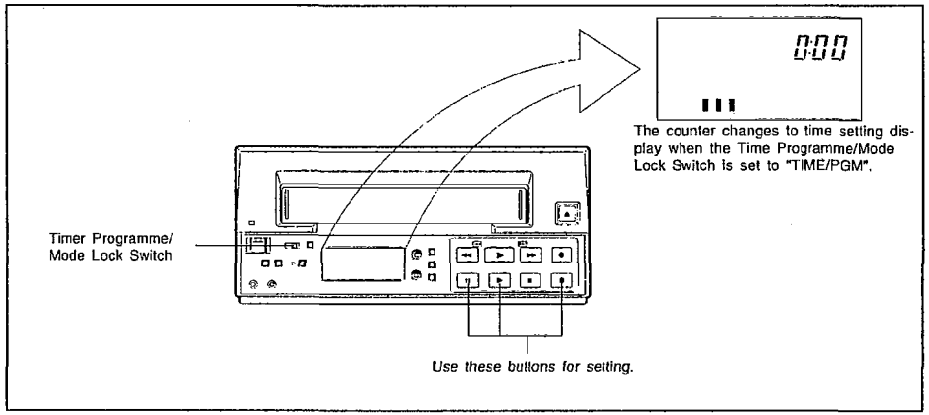
- The unit is set to the Hi-Fi mode when the power is installed.
  (L and R indications will both light in the Counter.)
  To select to the desired audio, press the Audio Output Button.
  For details, refer to the "Playback".

Operations

1. Press the PLAY Button to start playback.
2. Press the PAUSE/STILL Button where the sound is to be added (audio dubbing).
3. Press the AUDIO DUB Button.
4. Audio dubbing starts as soon as the PAUSE/STILL Button is pressed to release the pause mode.
5. Press the STOP Button to stop the audio dubbing.

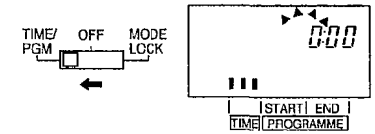
1—7

Time Setting

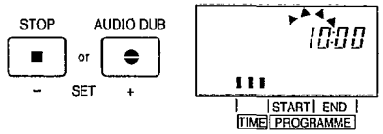

Timer Programme/
Mode Lock Switch
The counter changes to time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".
Use these buttons for setting.

Operation

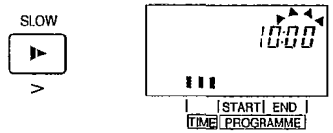
❶ Set the Timer Programme/Mode Lock Switch to "TIME/PGM". The "HOUR" part will flash.



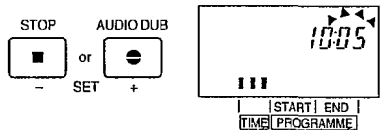
❷ Set the "HOUR" using the STOP (–) Button or the AUDIO DUB (+) Button.



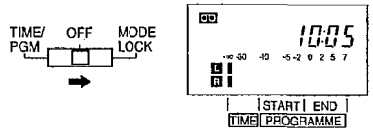
❸ Press the SLOW (▮▶) Button and move the flashing to the "MINUTE" part.



❹ Set the "MINUTE" using the STOP (–) or the AUDIO DUB (+) Button.

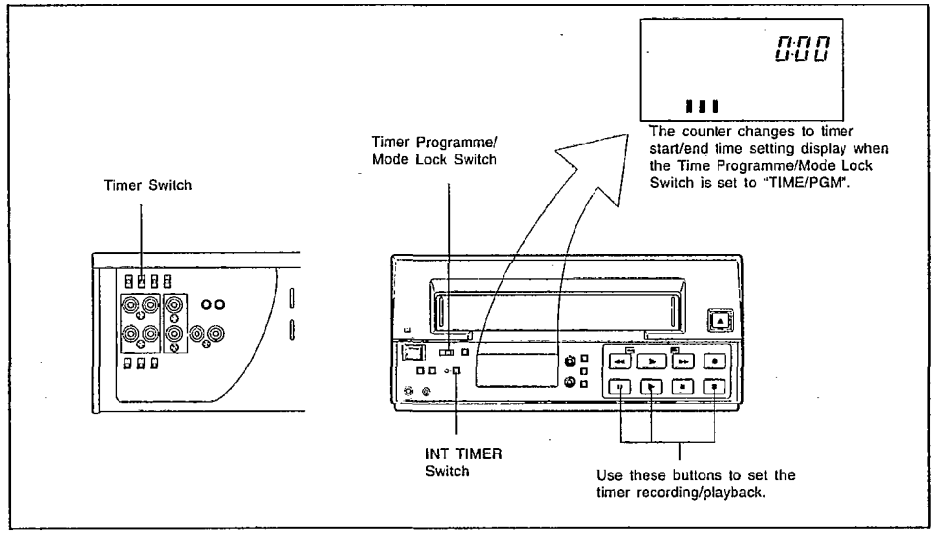


❺ Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".



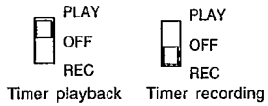
Note:
- The "SECOND" will be automatically set to "00" when time setting is performed.

Timer Recording/Playback


Timer Switch
Timer Programme/
Mode Lock Switch
The counter changes to timer start/end time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".
INT TIMER
Switch
Use these buttons to set the timer recording/playback.

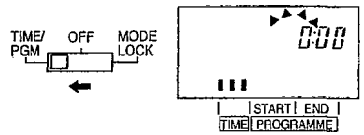
Preparations

- Set the Timer Switch to "PLAY" or "REC".

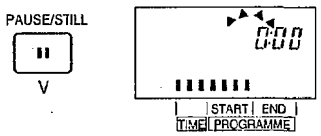


Operation

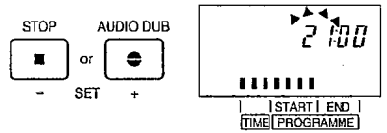
❶ Set the Timer Programme/Mode Lock Switch to "TIME/PGM".



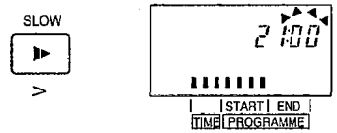
❷ Press the PAUSE/STILL (▮▮) Button to select the timer start time.



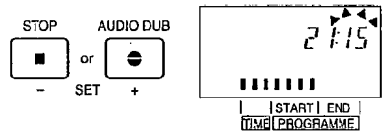
❸ Set the "HOUR" using the STOP (■) or AUDIO DUB (⬌) Button.



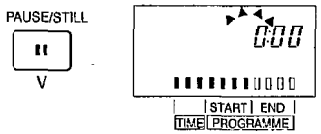
❹ Press the SLOW (▮▶) Button and move the flashing to the "MINUTE" part.



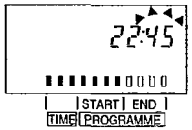
❺ Set the "MINUTE" using the STOP (■) or AUDIO DUB (⬌) Button.



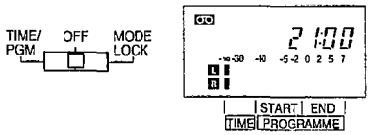
❻ Press the PAUSE/STILL (▮▮) Button to select the timer end time.



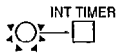
❼ Repeat step ❸ to ❺ and set the "HOUR" and "MINUTE" of the timer end time.



❽ Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".



❾ *Press the INT TIMER Switch. The INT TIMER Lamp* lights.



❿ The power will be automatically ON from 21:15 to 22:45 and the unit will either start timer recording or playback according to the setting of the Timer Switch.

Notes:

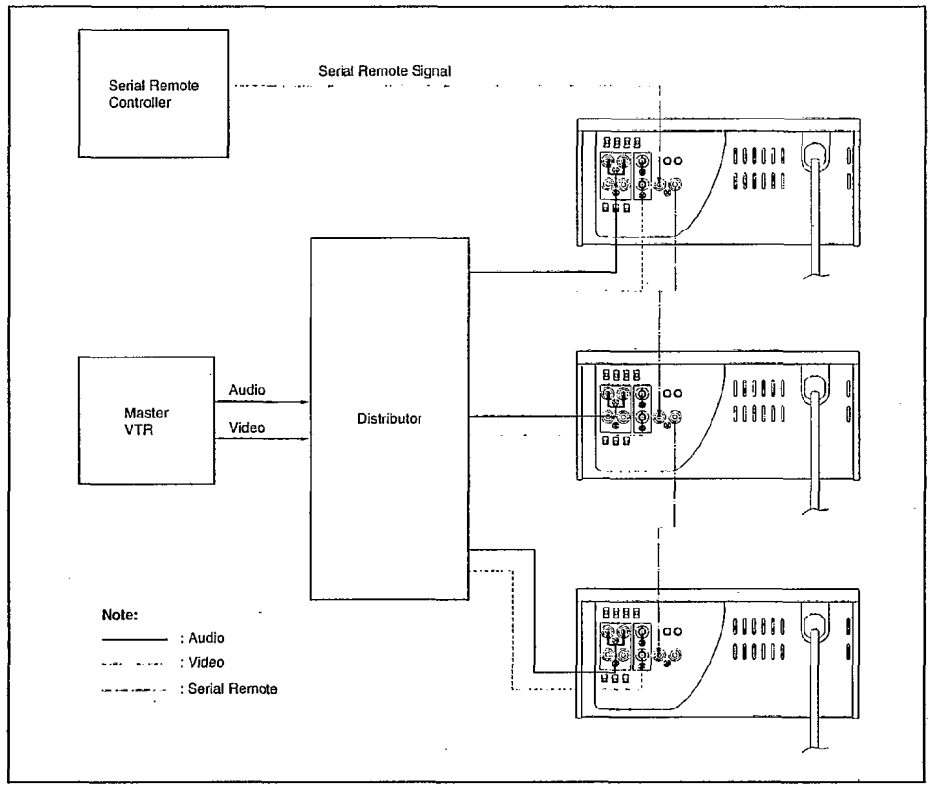
- If the Timer Switch is set to "OFF", the unit will be powered ON when the starting time comes.
- When auto repeat playback is desired with timer playback, set the Timer Switch to "PLAY" and the Auto Rewind Switch to "TAPE" or "VIDEO". For details, refer to the "Repeat Playback".
- When performing timer recording, make sure that the record safety tab on the cassette tape is intact. If the record safety tab is not intact, the cassette tape will be ejected automatically.
- The cassette tape cannot be ejected when the INT TIMER Lamp is lighted.
- When the timer starting time and the timer end time are set to the same, timer recording or playback will commence all day long.
- As the tape cannot be rewound automatically, timer recording cannot be performed when the unit reaches to the tape end.

Serial Remote Control

The use of the optional serial remote controller makes it possible to conduct recording, playback and other operations from a distance, as shown in the figure. For details, consult with your authorized service personnel.

Preparations

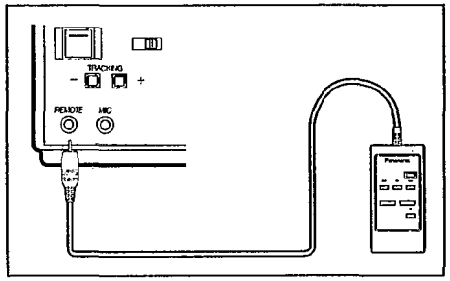
- Set the TAPE IN Switch to "OFF".
- Set the Timer Switch to "OFF.
- Set the Serial/Series Playback Switch to "SERIAL".



Note:
Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.

Remote Controller

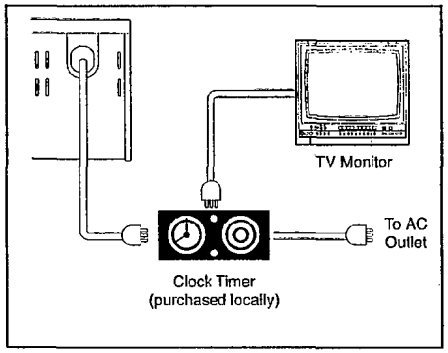
When the optional remote controller AG-A11 is connected to the Remote Control Jack on the front panel of this unit, the unit can be controlled from a distance instead of using the operation buttons on the unit.



External Timer Recording/Playback

The use of an external timer permits timer recording/playback with this unit.

- Connect the timer with this unit and the TV Monitor as follows:



Preparation

- Turn this unit and the TV Monitor ON.
- Insert the cassette tape.

1. Set the timer to the desired ON and OFF time. (Refer to the operating instructions for the timer.)
   - It takes about one minute to load the tape inside the unit. Therefore, set the timer pre-set time about one minute.
2. Set the Timer Switch to "REC" or "PLAY".
3. At the preset ON time, the power will be automatically turned ON, the tape will start moving, and the picture will appear on the monitor.
4. At the preset OFF time, the unit will be turned off, but the tape will remain loaded on the cylinder of the unit. (When the power is resumed, the tape will be unloaded and then the unit will go into the recording/playback mode.)

Notes:

- Whenever possible it is best to set the timer OFF position so that the unit is turned OFF about 10 minutes after the tape ends. This will help protect the tape. If, for example, NV-E180 tape is used, the turn-off time should be set for about 190 minute.
- Press the STOP Button to stop the timer recording/playback.

V-LOCK Adjustment

If picture jitters vertically in STILL, adjust the V-Lock Controls on the rear panel, but a one time adjustment should be necessary.

Cautions for Use

- Do not insert fingers or any other objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, turn the Power OFF and disconnect the power plug from the AC outlet.
- Do not leave a cassette in the unit when not in use.
- Do not block the ventilation slots on the top of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Keep the VTR away from flower vases, tubs, sinks, etc. **CAUTION:** If liquids should be spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, remove power and consult qualified service personnel.
- Wipe the VTR with a clean, dry cloth. Never use cleaning fluids, chemicals or wax.
- Do not attempt to disassemble the unit. There are no user serviceable parts inside.
- If any liquid spills inside the unit, have the unit examined for possible damage.
- Refer any needed servicing to authorized service personnel.

Cleaning care for video heads

If the screen should appear as shown below, it means that the video heads are dirty. It is recommended that you clean the heads periodically. Use the optional cleaning tape and special purpose cleaning fluid to clean the heads. Consult with your dealer if the symptoms should persist even after cleaning.

Note:

- We do not recommend that you attempt to clean the video heads yourself.
- Repeated head cleaning will shorten the service life of the video heads.
- Nothing can be recorded on the head cleaning tape.
- If you use cleaning fluid, wipe the cleaned heads with a dry cloth before using the unit.

Dew Indication

When dew is detected, the safety device of this unit will operate in order to protect the cassette tape and video heads.
In case of dew detection, the "d" mark in the counter lights. Wait until the "d" mark goes out with VTR switch turned ON.

"d" mark lights.

Note

Dew condensation normally occurs gradually. Therefore, there may be cases in which the "d" mark does not start flashing until 10 or 15 minutes after dew has begun to condense. In particular, if the temperature or humidity in the room change, wait about 20 minutes before using the unit.

Cause of Condensation

Condensation forms if warm air comes in contact with a cold object, for example on a window in a well-heated room in winter. It may form if the unit or the video cassette is exposed to sudden changes in temperature and humidity such as may occur when the unit or the video cassette is taken from a cold to a warm place. For instance:

- In a room where the heater has just been turned on in winter;
- In a room with steam or high humidity;
- If the unit or the cassette is brought from cold surroundings into a well-heated room.

Troubleshooting

...Check the following points once again.

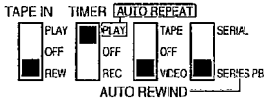
Trouble	Corrections
No power	• Check that the power cord is connected to the AC Outlet.
When the power is turned ON, the unit starts the recording/playback automatically.	• Check that the Timer Switch is OFF.
No operation starts when operation buttons are pressed.	• Check that the VTR Switch is ON. • Check that the cassette tape is inserted. • Check the "d" mark. When the "d" mark lights: Take out the video cassette and leave the unit on and let it remain at room temperature until "d" mark disappears. Depending on the surrounding conditions, this may take several hours. • Check that the Time Programme/Mode Lock Switch is set to the "OFF" position.
When the Record and Play Buttons are pressed at the same time, the tape is ejected.	• Check that the erasure prevention tab is still intact on the back of the tape.
The Playback picture is noisy or contains streaks.	• Adjust by the Tracking Control Buttons.
Repeated playback cannot be performed.	• Check that the Timer Switch is set to the "OFF" position. • Check that the Auto Rewind Switch is set to the "OFF" position. • Check that the Serial/Series Playback Switch is at the "SERIAL" position.
When the tape is inserted, unit starts playback automatically.	• Check that the TAPE IN Switch is at the "OFF" position.
Series playback cannot be performed.	• Check that the Serial/Series Playback Switch is at the "SERIES PB" position.

Refer servicing to qualified service personnel.

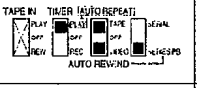
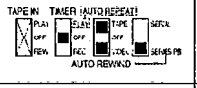
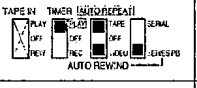
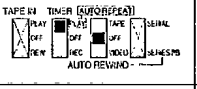
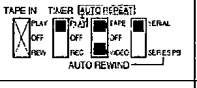
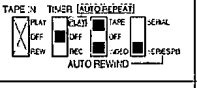
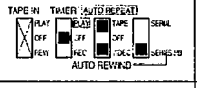
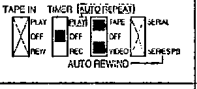
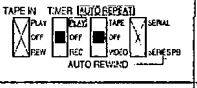
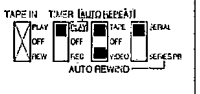
Table of Rear Panel Switch Operations

The table below lists the switch settings which apply when the rear panel switches are to be operated. Set the switches to the positions that correspond with the intended operation.

The following figure shows the rear panel switch area.



When using the unit in the modes listed below, set the switches as shown in the figure.

Operation		Switch position: 1st VTR	Switch position: 2nd and subsequent VTRs	Remarks
❶ Timer series playback (2 or more VTRs connected)				(↻) is displayed for 10 seconds after the timer has been set ON.
❷ Timer playback (1 VTR connected)	With auto rewind		—	(↻) is displayed for 10 seconds after the timer has been set ON.
	Without auto rewind		—	(↻) is displayed for 10 seconds with series playback and all the time with serial playback after the timer has been set ON.
❸ Timer auto repeat playback (1 VTR connected)			—	(↻) is displayed all the time after the timer has been set ON.
❹ Manual series playback (2 or more VTRs connected)				
❺ Manual playback (1 VTR connected)	With auto rewind		—	
	Without auto rewind		—	
❻ Manual auto repeat playback (1 VTR connected)			—	(↻) is displayed all the time.

- The position of the cassette IN switch has no bearing on any of the above operations.
- Set the auto repeat switch to the "tape" or "video" position unless "without auto rewind" applies.
- To initiate operations from ❹ manual series playback to ❻ manual auto repeat playback, press the play button upon completion of the settings.

1-2. SERVICE INFORMATION

1-2-1. Emergency Cassette Removal

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to removing cassette manually.
There are 2 methods of removing the cassette.

A. Hand Operation

1. Remove the Bottom Plate.
2. Turn the worm gear to arrow mark direction by finger as shown in Fig.S1 until the loading post move to unloading position.
3. Turn the capstan rotor clockwise to take up the tape.
4. Turn the worm gear again to eject the cassette.

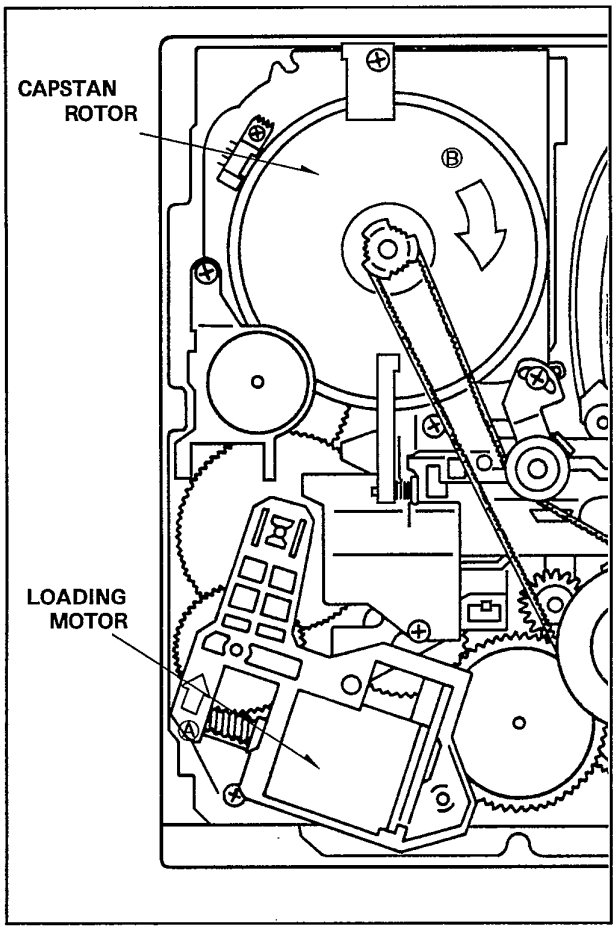


Fig. S1

B. Battery Operation

1. Remove the Bottom Plate.
2. Connect the battery (Manganese-Type (AA) 3pcs./+4.5V) to P1503 as shown in Fig.S2.
3. After moving the loading post to the unloaded position, disconnect the battery to stop the loading motor.
4. Turn the capstan rotor clockwise to take up the tape.
5. Reconnect the battery to eject the cassette.

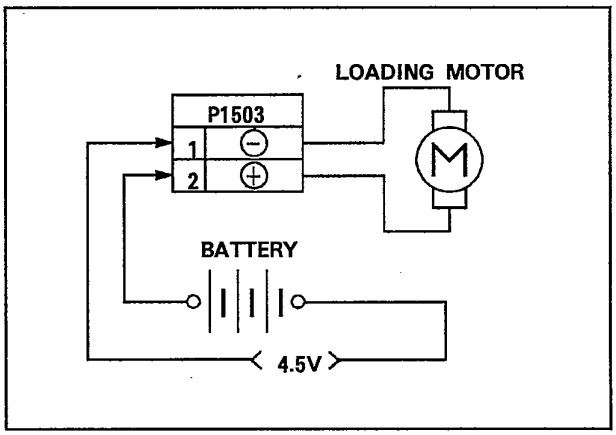


Fig. S2

1-2-2. Hour Meter Reset

1. Turn off by the power key.
2. Connect jumper wire between TP6104 and GND on the Main C.B.A.
3. Turn on unit by the power key whiles press the tracking "+" and "-" buttons simultaneously.
4. Flushing the all LCD display. (approx.4sec)
5. Hour meter reset when stop the LCD flushing.

1-2-3. Auto Off Operation & Error Code

ERROR CODE	CONTENS	CAUSE CONDITION
d	CONDENSATION (DEW)	1. If it is in POWER OFF mode,the mode turns to POWER ON and "d" indication. 2. If a tape is inserted,the mode turns to middle EJECT postion and the cylinder rotates. 3. Dew condensation continues for about 120 minutes. 4. After cancelleating condensation,if a tape is inserted,the mode turns to STOP.
E-2	FRONT LOADING LOCKED	1. If the motor is locked for about 2-5 seconds during front loading, the motor is unloaded. 2. If the motor is locked for about 2-5 seconds during front unloading, the motor is unloaded after loading. Then if it is locked for about 2-5 seconds, the mode turns to AUTO OFF and "E-2" indication.
E-3	LOADING LOCKED	1. If the mode is locked for about 5 seconds during loading, it is unloaded. Then if it is loaded and locked again, the mode turns to AUTO OFF and "E-3" indication. 2. If the motor is locked for about 2-5 seconds during unloading, the mode turns to AUTO OFF and "E-3" indication.
E-4	CYLINDER LOCKED	1. If the motor is locked for about 5 seconds in cylinder rotating mode, the mode turns to AUTO OFF and "E-4" indication.
E-5	REEL LOCKED	1. If the reel rotation is locked during tape running, the motor in unloaded once. Then if the rotation is locked through the trying to load, the mode turns to AUTO OFF and "E-5" indication.

DISASSEMBLY PROCEDURE

2-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing. When reassembling, perform the steps in the reverse order.

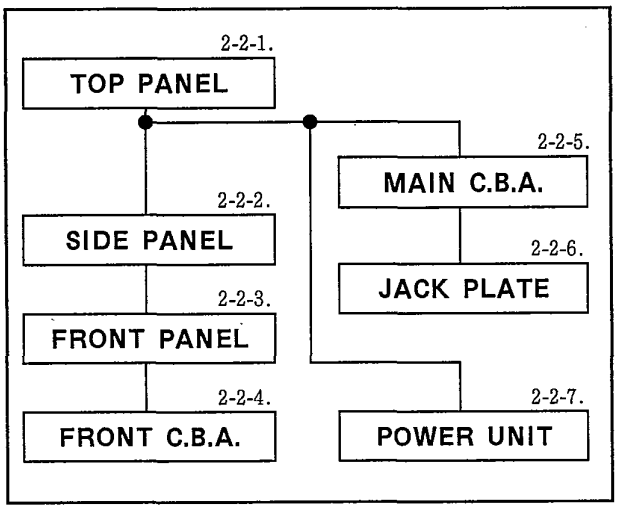


Fig. D1

2-2. DISASSEMBLY METHOD

2-2-1. Removal of the Top Panel

1. Unscrew the 2 screws (A) on the top of the unit and lift up rear portion of the Top Panel then slide it off the back of the unit.

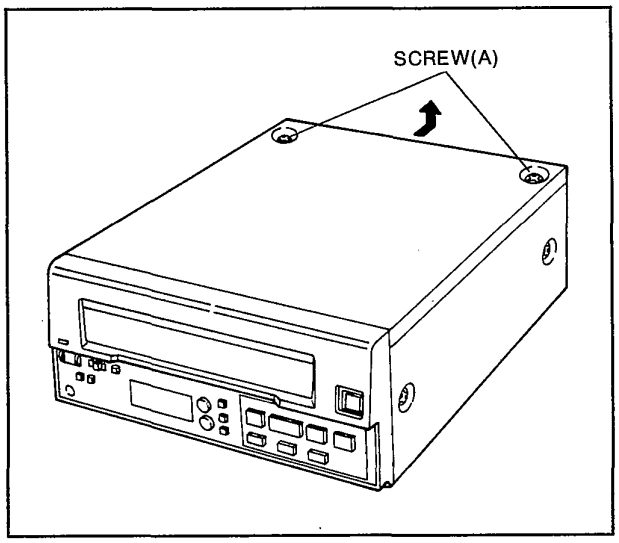


Fig. D2

2-2-2. Removal of the Side Panel

1. Unscrew 2 screws (B) on the side of the unit for each the Side Panel and remove the Side Panel.

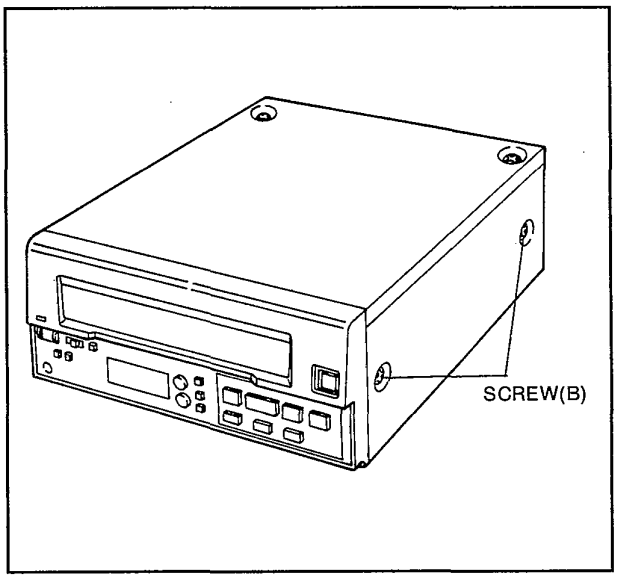


Fig. D3

2-2-3. Removal of Front Panel

1. Unlock the 4 locking tabs on the top and bottom of the Front Panel then pull the panel off the unit.

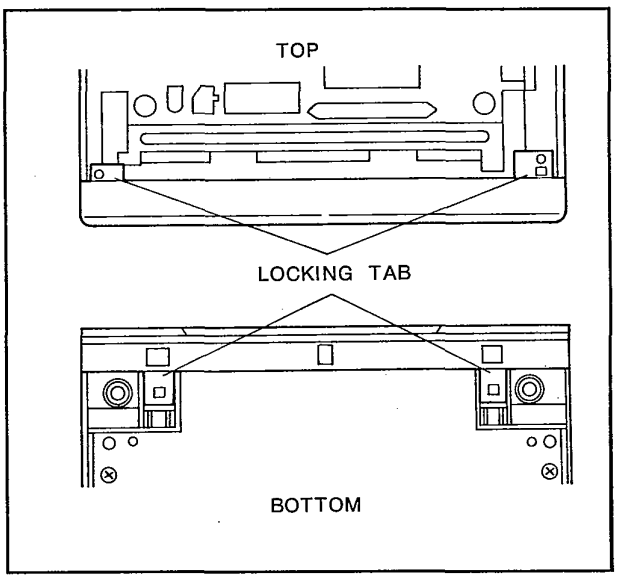


Fig. D4

2-2-4. Removal of the Front C.B.A.

1. Unscrew 2 screws (C), disconnect 2 flexible cables from the P6501 and P6502.
2. Unlock 3 locking tabs on the Front C.B.A.
3. Carefully pull the Front C.B.A. off the unit.

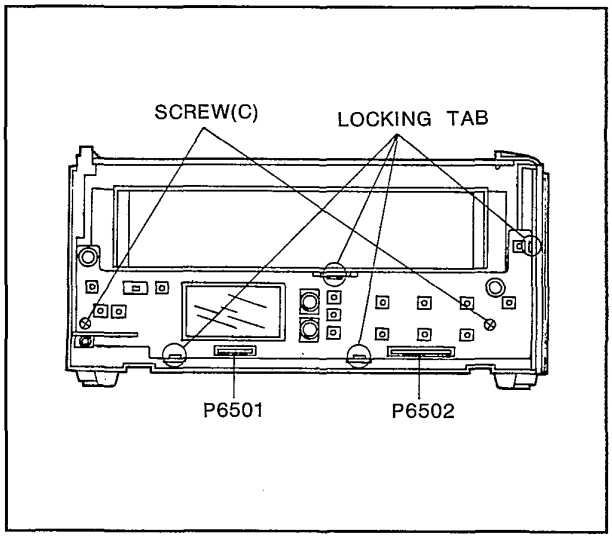


Fig. D5

2-2-5. Opening of the Main C.B.A.

1. Unscrew 3 screws (D) on the Main C.B.A.
2. Unlock 2 locking tabs and carefully open the Main C.B.A.

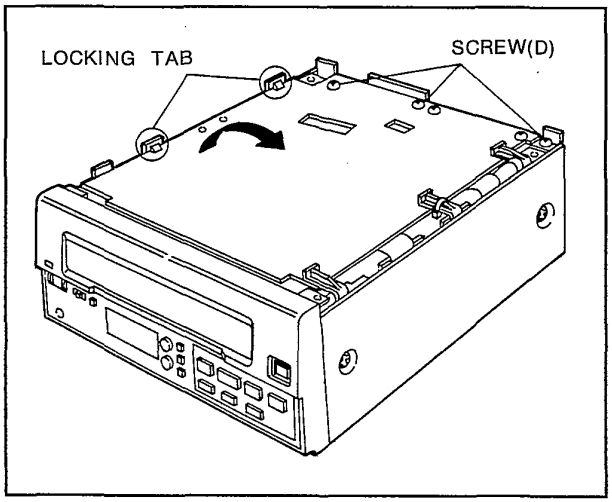


Fig. D6

2-2-6. Removal of the Jack Plate

1. Unscrew 2 screws (E) on the foil side of the Main C.B.A.
2. Carefully pull out the Rear Jack C.B.A. with the Rear Plate that connected the P6007 and P6008 on the Main C.B.A.

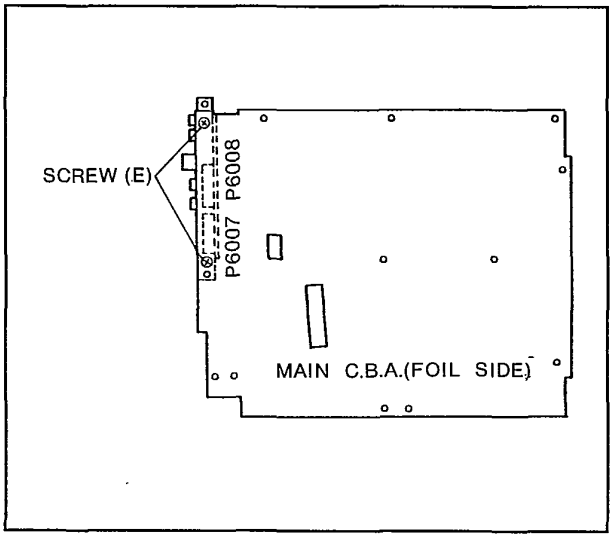


Fig. D7

2-2-7. Removal of the Power Supply Unit

1. Disconnect P1 connector in side of the Power Supply Unit.
2. Push down the locking tab and carefully slide the Power Supply Unit then lift it up from the unit.

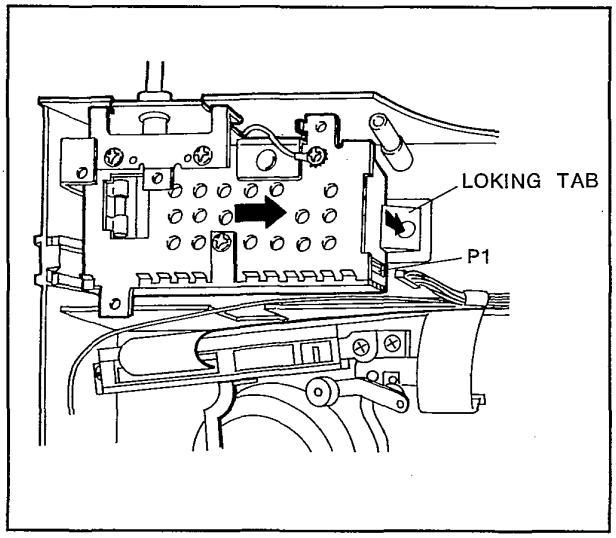
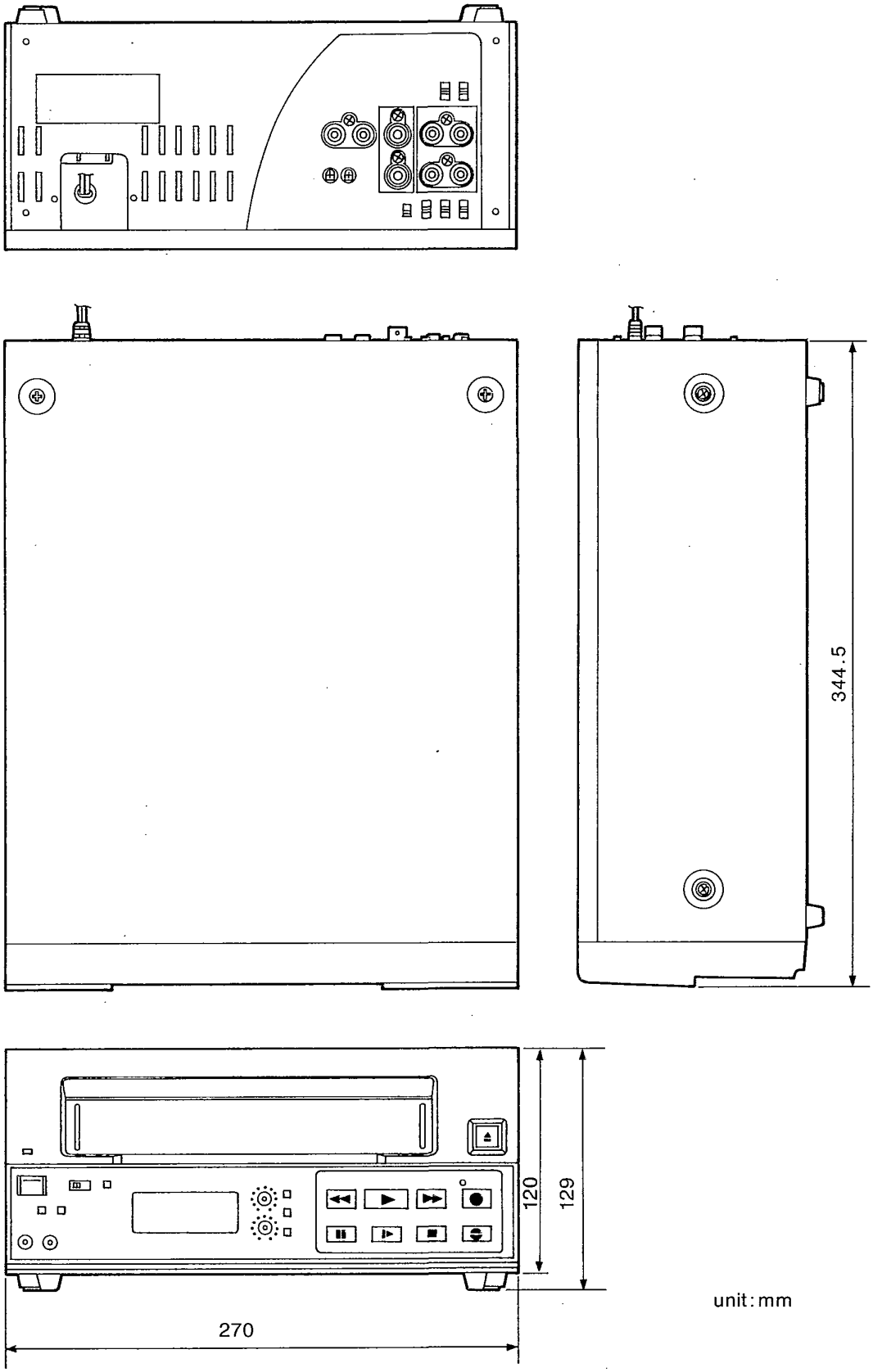


Fig. D8

DIMENSIONS



unit: mm

REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout its useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deterlorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

3-1. MAINTENENCE CHART

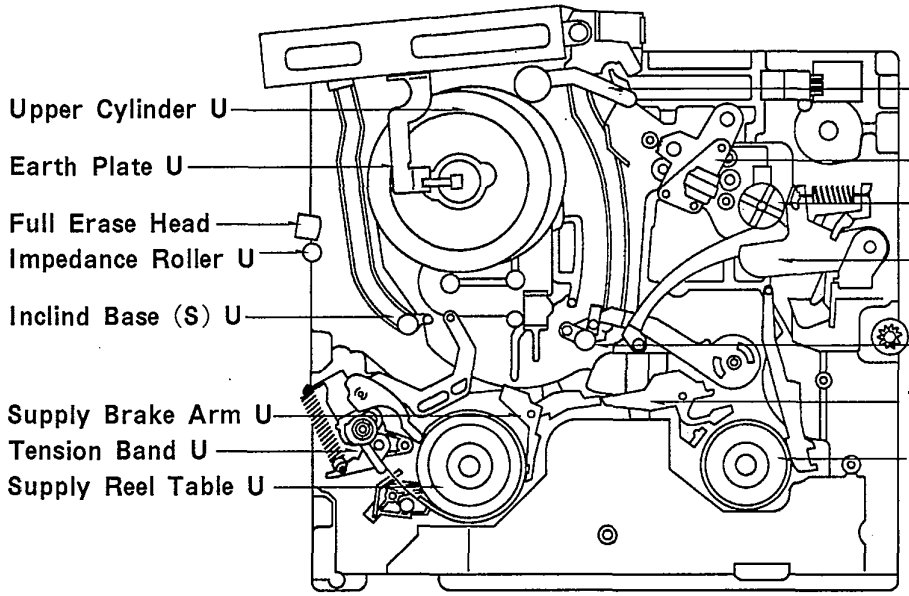
The following periodic maintenance is required to prolong the life of the machine.

Ref. No. IN P/L	Parts Name	Hour										Ref. No. IN P/L	Parts Name	Hour									
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000			500	1000	1500	2000	2500	3000	3500	4000	4500	5000
—	Tape Transporter	●	●	●	●	●	●	●	●	●	●	64 (1)	Takeup Brake Arm U				◎				◎		
20 (1)	A/C Head	●	●	●	●	●	●	●	◎	●	●	52 (1)	Tamsopm Band U				◎				◎		
71 (1)	Upper Cylinder	●	◎	●	◎	●	◎	●	◎	●	◎	113 (2)	Timing Belt				◎				◎		
70 (1)	Cylinder U	●	●	●	●	●	●	●	◎	●	●	62 (1)	Earth Plate U								◎		
60 (1)	Supply Real Table U	●	●	●	●△	●	●	●	●△	●	●	12 (1)	FE Head	●	●	●	●	●	●	●	◎	●	●
61 (1)	Takeup Reel Tuble U	●	●	●	●△	●	●	●	●△	●	●	127 (2)	Mode Switch								◎		
106 (2)	Capstan Roter U	●	●△	●	●△	●	●△	●	◎△	●	●△	108 (2)	Main Cam Gear				×				×		
105 (2)	Capstan Housing U								◎			40 (1)	Inclined (S) U				▲				▲		◎
49 (1)	Pressure Roller U				◎				◎			42 (1)	Inclined (T) U				▲				▲		◎
63 (1)	Supply Brake Arm U				◎				◎			121 (2)	Loading Motor U				◎				◎		
15 (1)	Impedance Roller U	●	●	●	●	●	●	●	◎	●	●	9 (1)	Cleaner Arm U				◎				◎		
128 (2)	SS Brake Base U				◎				◎														

✻ NOTE:

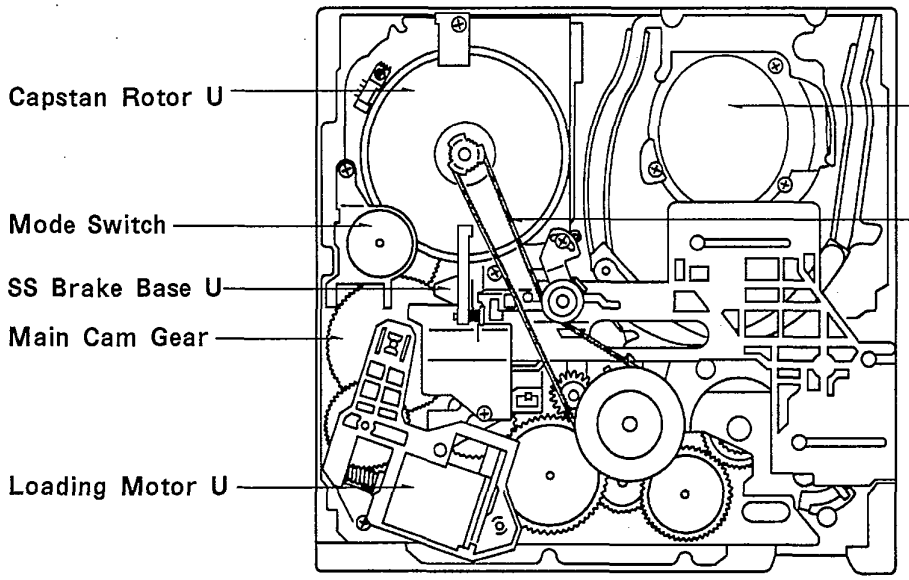
Symbol	Maintenance	Requirement	Remark
●	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
◎	Replacement	————	————
△	Lubrication	High Quality Spindle Oil (Purchase locally)	Supply one or two drops of oil.
▲	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

3-2. PARTS LOCATION



TOP VIEW

BOTTOM VIEW



ELECTRICAL ADJUSTMENT PROCEDURES

4-1. TEST EQUIPMENT

To perform the electrical adjustment completely the following equipments are required.

1. VTVM (Vacuum Tube Volt Meter)
   Capacity: 0.001 to 50V
2. DVM (Digital Volt Meter)
   Capacity: 0.001 to 50V
3. Dual-Trace Oscilloscope (with probes)
   Capacity: 0.005 to 50V/div, DC to 30MHz
4. Frequency Counter
   Capacity: 0 to 10MHz
5. Sine Wave Signal Generator(RC Oscillator)
   Capacity: 0 to 10MHz
6. Video Signal Generator (Composite)
7. Spectrum analyzer
8. Color Monitor TV
9. Alignment Tape (VFM8080HQFP)

4-2. ELECTRICAL ADJUSTMENT PROCEDURES

HOW TO READ THE ADJUSTMENT PROCEDURE TABLE

BOARD	MAIN C.B.A.
TP	TP3502(F-2)
ADJ.	VR2002(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOR BAR
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	T=6.5±0.5H

BOARD: Adjustment position of Print Circuit Board.
TP: Connection point(Test Point) of measuring equipment
* ( ) shown TP location on the board.
ADJ.: Adjustment component
* ( ) shown VR location the board.
TAPE: Tape for adjustment.
INPUT: Supply a signal for adjustment.
MODE: Mode of VTR.
Example:REC → PLAY is recording signal and playback the portion just recorded.
M.EQ: Measuring equipment.
SPEC.: Specification for adjustment.

4-2-1. PG SHIFTER ADJ.

BOARD	MAIN C.B.A.
TP	TP3502(F-3),TP6106(H-4)
ADJ.	VR2002(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOUR BAR
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	T=6.5±0.5H

Note: *Tape interchangeability adjustment should be completed before this adjustment.*

1. Playback the 2nd portion of the alignment tape.
2. Connect the oscilloscope to TP3502 for CH1 and TP6106 for CH2.
3. Adjust VR2002 so that T=6.5 ± 0.5H as shown in Fig. E1.

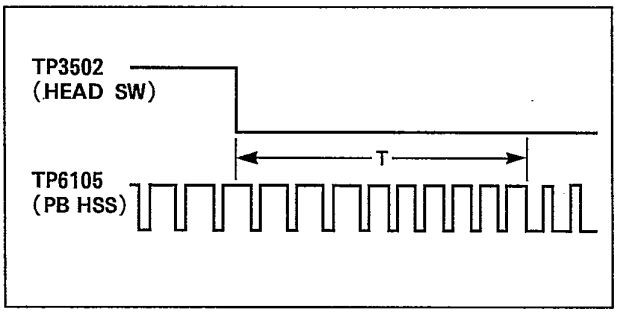


Fig.E1

4-2-2. SLOW FREE RUN ADJ.

BOARD	MAIN C.B.A.
TP	TP6004(A-4)
ADJ.	VR2001(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOUR BAR
MODE	PLAY/PAUSE(STILL)
M.EQ	FREQUENCY COUNTER
SPEC.	F=470±10Hz

1. Connect the jumper wire between TP6002(B-8) and TP6003(B-8) on the MAIN C.B.A.
2. Playback the 2nd portion of the alignment tape.
3. Connect the low frequency counter to TP6004.
4. Adjust VR2001 so that F=470 ± 10Hz.
5. Remove a jumper wire when completed this adjustment.

4-2-3. SLOW TRACKING ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR2006(A-3),6H:VR2004(B-4)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	MONITOR TV
SPEC.	NO NOISE BAR APPEAR ON MONITOR TV

Note: *SLOW FREE RUN adjustment should be completed before this adjustment.*

1. Record the colour bar signal a few minute in the 3H and 6H tape speed mode.
2. Set the tracking to fix position that press the tracking buttons (+)/(-) simultaneously.
3. Place the unit in SLOW mode.
4. Adjust VR2006(3H) and VR2004(6H) until noise bar disappear on the monitor screen.

4-2-4. V LOCK ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR2008(B-4),6H:VR2007(B-5)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY/PAUSE
M.EQ	MONITOR TV
SPEC.	NO V-DANCING ON MONITOR TV

Note: *SLOW TRACKING adjustment should be completed before this adjustment.*

1. Set the V LOCK volume VR6901(3H) and VR6902(6H) to center position on the rear jack panel.
2. Record the colour bar signal a few minute in the 2H and 6H tape speed mode.
3. Place the unit in STILL mode at 3H recorded portion.
4. Adjust VR2008 so that the V-dancing does not appear on monitor screen.
5. Place the unit in STILL mode at 6H recorded portion.
6. Adjust VR2007 so that the V-dancing does not appear on monitor screen.

4-2-5. AGC LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	VR3001(D-6)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC or STOP
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p

1. Set the AGC SW to ON side.
2. Place the unit in the recording or stop mode with the colour bar signal.
3. connect Video out to the oscilloscope with a 75ohm termination.
4. Adjust VR3001 so that video level becomes 1.0 ± 0.05 Vp-p.

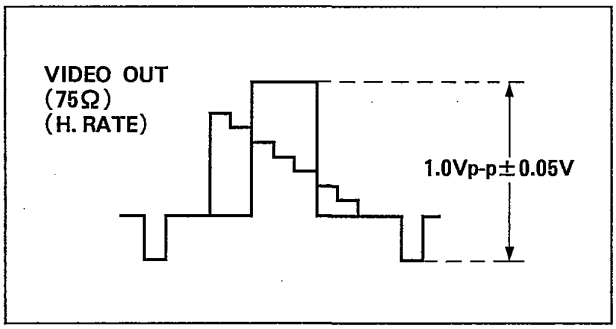


Fig. E2

4-2-6. Y LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	VR3004(G-4)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC or STOP
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p

Note: *AGC LEVEL adjustment should be completed before this adjustment.*

1. Set the AGC SW to OFF side.
2. Place the unit in recording or stop mode with the colour bar signal.
3. Connect video out to the oscilloscope with a 75ohm termination.
4. Adjust VR3004 so that the Y level becomes 1.0 ± 0.05 Vp-p.
5. Set the AGC SW to ON side when completed this adjustment.

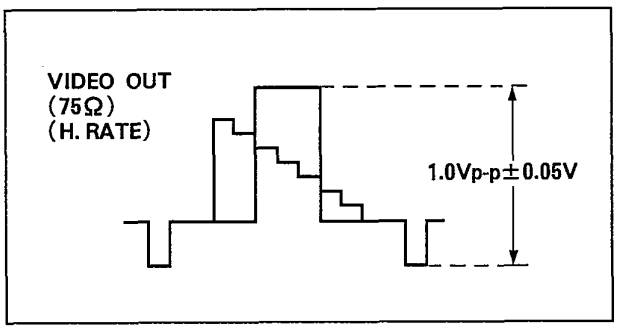


Fig. E3

4-2-7. YNR BALANCE ADJ.

BOARD	MAIN C.B.A.
TP	TP3004(F-4)
ADJ.	VR3501(C-7)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC
M.EQ	OSCILLOSCOPE
SPEC.	A=LESS THAN 50mVp-p

1. Place the unit in recording mode with colour bar signal.
2. Connect TP3004 to the oscilloscope.
3. Adjust VR3501 so that the white portion becomes minimum as much as possible.

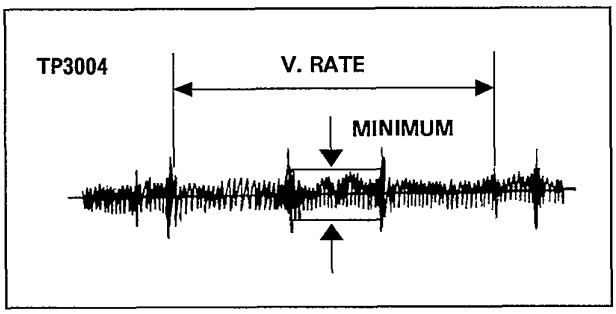


Fig. E4

4-2-8. VIDEO RECORDING CURRENT ADJ.

BOARD	MAIN C.B.A.
TP	TP507,TP508(HEAD AMP)
ADJ.	Y:VR3505(D-3),C:VR3504(E-3)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC
M.EQ	OSCILLOSCOPE
SPEC.	Y=140±5mVp-p, C=32±2mVp-p

Note: *The oscilloscope probe should be use under 5 feet longer cable and set 10:1.*

1. Place the unit in recording(3H) mode with colour bar signal.
2. Connect the oscilloscope between TP507(HOT) and TP508(GND) on the HEAD AMP C.B.A.
3. Turn the VR3505 fully clockwise from foil side.
4. Adjust VR3504 so that the cyan level becomes 32 ± 2 mVp-p and adjust VR3505 so that the sync level becomes 140 ± 5 mVp-p.

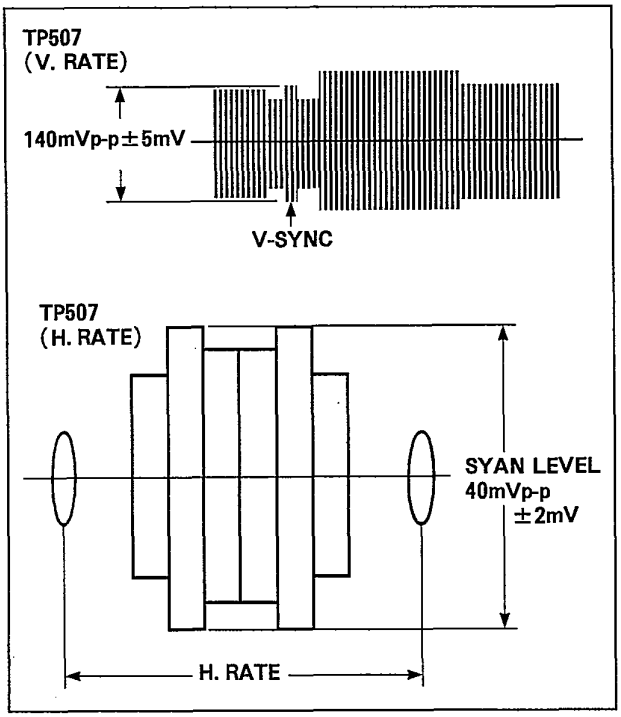


Fig. E5

4-2-9. CNR ADJ.

BOARD	MAIN C.B.A.
TP	TP3002(F-6)
ADJ.	VR3002(G-5),VR3007(G-6)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	A=LESS THAN 700mVp-p

Note: *YNR BALANCE adjustment should be completed before this adjustment.*

1. Record the colour bar signal a few minute and playback the just recorded portion.
2. Connect TP3002 to the oscilloscope.
3. Adjust VR3002 and VR3007 mutually so that chrome components becomes minimum as much as possible.

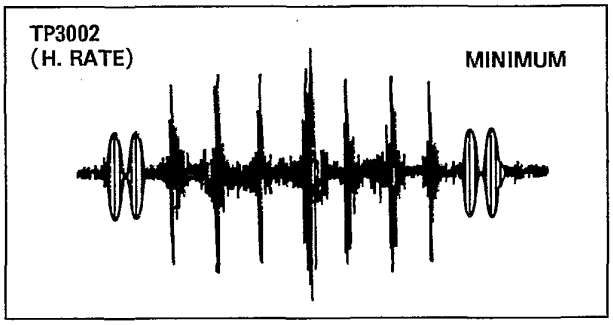


Fig. E6

4-2-10. VIDEO PLAYBACK LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	Y:VR3005(E-4),C:VR3502(D-8)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p, C=0.6±0.03Vp-p

Note: *CNR adjustment should be completed before this adjustment.*

1. Connect video out to the oscilloscope with a 75ohm termination.
2. Record the colour bar signal a few minute and playback just recorded portion.
3. Adjust VR3005 so that the Y level becomes 1.0 ± 0.05Vp-p.
4. Adjust VR3502 so that the cyan level becomes 0.6 ± 0.03Vp-p.

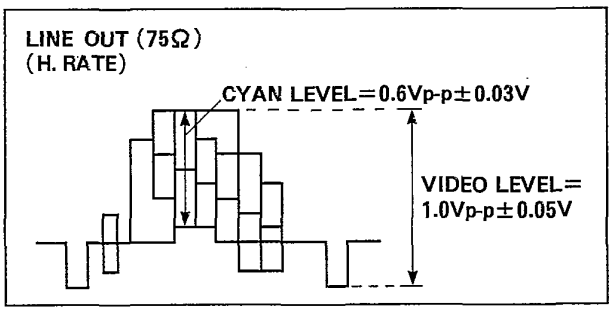


Fig. E7

4-2-11. PB EQUALIZER ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR3503(F-3),6H:VR3506(F-4)
TAPE	BLANK TAPE
INPUT	30% VIDEO SWEEP (W/O:Burst)
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	100K : 2MHz=5 : 5.0±0.5

1. Connect video out to the oscilloscope.
2. Record the 30% video sweep signal a few minute in the 3H and 6H tape speed mode.
3. Playback just recored portion.(Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
4. Adjust VR3503 so that the 3H level becomes as shown in Fig.E8 at 3H recorded portion.
5. Adjust VR3506 so that the 6H level becomes as shown in Fig.E8 at 6H recorded portion.

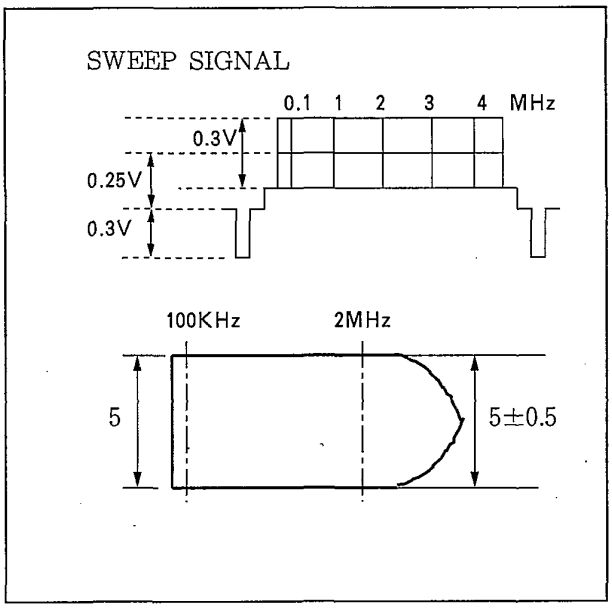


Fig.E8

4-2-12.AUDIO E-E LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	AUDIO OUTPUT
ADJ.	CH1:VR4002(I-3),CH2:VR4003(I-4)
TAPE	
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	STOP
M.EQ	VTVM
SPEC.	OUTPUT LEVEL = -8 ± 0.5dBV

1.Set the audio out select switch to Hi-Fi mode.
2.Hi-Fi Level VR to center position.
3.Supply sin wave signal to audio input.
4.Connect the VTVM to audio output.
5.Adjust VR4002 so that the audio output level becomes -8 ± 0.5dBv.
6.Adjust VR4003 so that the audio output level becomes -8 ± 0.5dBv.

4-2-13.AUDIO LEVEL METER ADJ.

BOARD	MAIN C.B.A.
TP	CH1:TP4006(I-1),CH2:TP4007(I-3)
ADJ.	CH1:VR4004(J-1),CH2:VR4005(J-2)
TAPE	
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	STOP
M.EQ	DVM
SPEC.	1.55±0.05V

1.Set the audio out select switch to Hi-Fi mode.
2.Hi-Fi Level VR to center position.
3.Supply 1kHz, -8dBV sine wave signal to audio input.
4.Connect the Digital Volt Meter to TP4006.
5.Adjust VR4004 so that DC level becomes 1.55 ± 0.05V.
6.Connect the Digital Volt Meter to TP4007.
7.Adjust VR4005 so that DC level becomes 1.55 ± 0.05V.
8.Confirm display light "+2dB" to "-5dB" when set the audio select SW to L → R → NORMAL mode.
Also, Level Meter difference between CH1 and CH2 within 1 segment on the display.

4-2-14. NORMAL AUDIO BIAS CURRENT ADJ.

BOARD	MAIN C.B.A.
TP	HOT:TP4001(I-1),COLD:TP4002(I-2)
ADJ.	VR4001(I-1)
TAPE	BLANK TAPE
INPUT	
MODE	REC
M.EQ	VTVM
SPEC.	3.0 ± 0.1mVrms

1. Place the unit in recording mode without audio signal.
2. Connect the VTVM to TP4001(HOT) and TP4002(GND).
3. Adjust VR4001 so that level becomes 3.0 ± 0.1 mVrms.

4-2-15. NORMAL AUDIO PLAYBACK GAIN ADJ.

BOARD	MAIN C.B.A.
TP	AUDIO OUT
ADJ.	VR4006(I-2)
TAPE	BLANK TAPE
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	REC → PLAY
M.EQ	VTVM
SPEC.	EE ± 1dB

1. Set the audio out select switch to Normal mode.
2. Level VR to center position.
3. Place the unit in recording mode with sine wave signal.
4. Connect the VTVM to audio output.
5. Playback the just recorded portion.
6. Adjust VR4006 so that playback level becomes EE level ± 1 dB.

4-2-16. FM AUDIO CARRIER FREQUENCY ADJ.

BOARD	AUDIO C.B.A.
TP	TP4004(H-3)
ADJ.	CH1:VR4501(E-1),CH2:VR4505(D-2)
TAPE	
INPUT	NO SIGNAL
MODE	STOP
M.EQ	SPECTRUM ANALYZER
SPEC.	fL=1.4MHz±10KHz fR=1.8MHz±10KHz

1. Ground the Audio inputs (CH1 & CH2)
2. Connect the spectrum analyzer to TP4004 on MAIN C.B.A.
3. Adjust VR4501 so that the frequency of spectrum analyzer becomes 1.4MHz ± 10KHz.
4. Adjust VR4502 so that the frequency of spectrum analyzer becomes 1.8MHz ± 10KHz.

4-2-17. FM AUDIO DEVIATION ADJ.

BOARD	AUDIO C.B.A.
TP	TP4004(H-3)
ADJ.	CH1:VR4502(E-2),CH2:VR4504(C-3)
TAPE	BLANK TAPE
INPUT	1KHz, -8dB SINE WAVE SIGNAL
MODE	REC
M.EQ	SPECTRUM ANALYZER
SPEC.	fW=100 ± 5 kHz

<Set up>
Hi-Fi LEVEL VR: Center position
Spectrum analyzer: SCAN TIME:10ms/div
BAND WIDTH:10kHz
DISPERSION:20kHz/div

1. Supply a 1kHz sine wave signal to the Audio input.
2. Connect the spectrum analyzer to TP4004 on MAIN C.B.A. and set the center frequency to 1.4MHz.
3. Adjust VR4502 so that the width of the fW portion becomes 100 ± 5kHz.
4. Set the center frequency to 1.8MHz.
5. Adjust VR4504 so that the width of the fW portion becomes 100 ± 5 kHz.

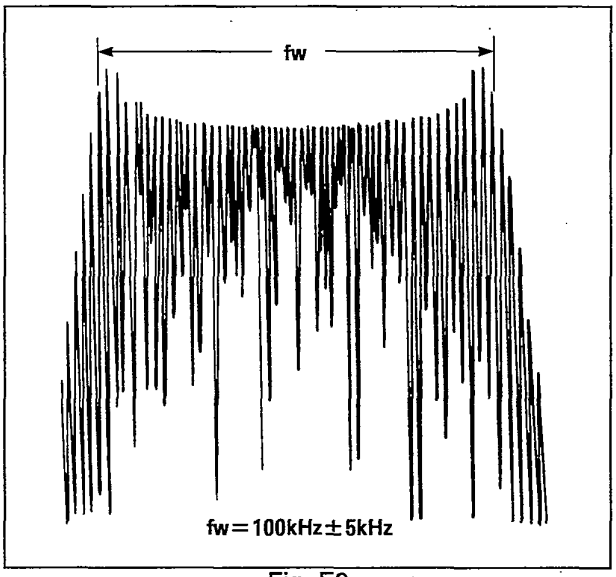


Fig. E9

4-2-18. FM AUDIO BPF ADJ.

BOARD	AUDIO C.B.A.
TP	TP4005(I-3)
ADJ.	VR4503(D-2)
TAPE	BLANK TAPE
INPUT	
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	ENVELOPE LEVEL: MAXIMUM

1. Connect the oscilloscope to TP4005 on MAIN C.B.A.
2. Place the unit in recording mode without audio signal.
3. Playback just recorded portion.
4. Adjust VR4503 so that the envelope level becomes maximum as much as possible.

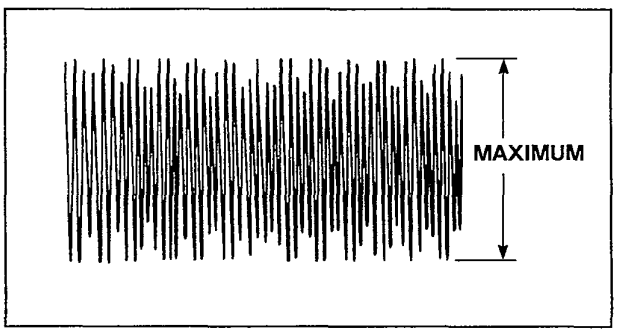


Fig.E10

4-3. MECHANICAL ADJUSTMENT INFORMATION

This section contain the supplementary information of Mechanical Adjustment Procedure for K-Mechanisum.
Please refer to the K-Mechanisum service manual (Order No. VSD9402M632) .

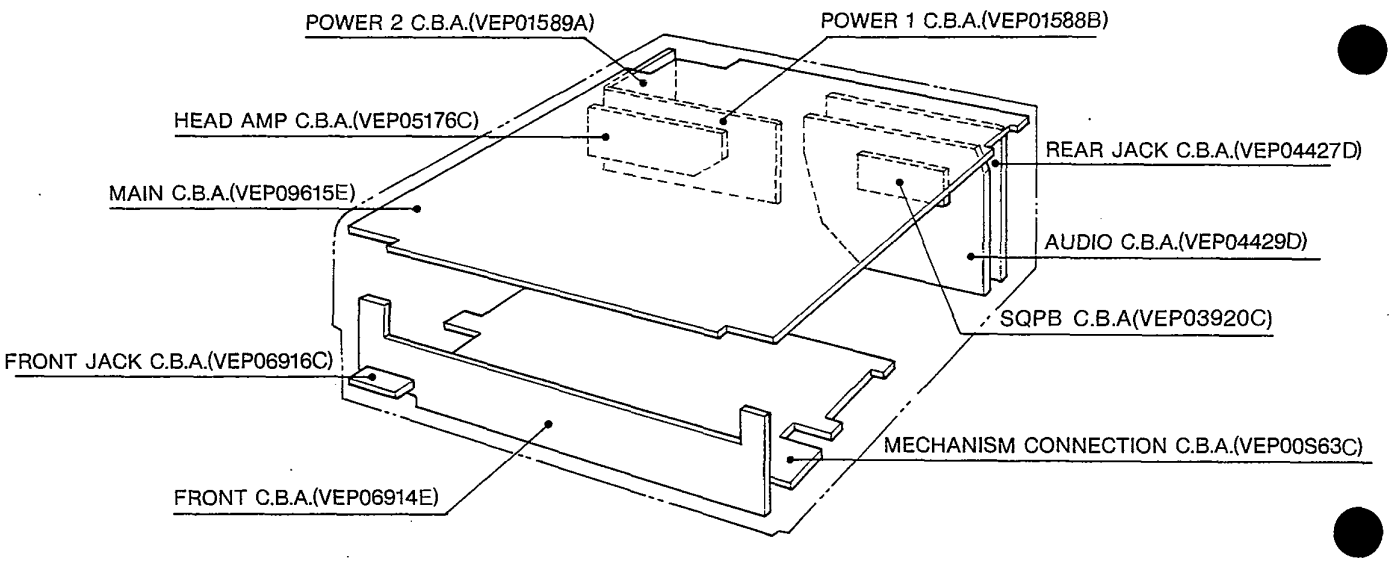
1. TEST POINT

INTERCHANGEABILITY ADJUSTMENT	VIDEO RF SIGNAL	TP507,TP508 (GND) HEAD AMP C.B.A.
	HEAD SWITCHING PULSE	TP3502 MAIN C.B.A.
TRACKING FIX POISION (Inhibit of Auto Tracking)	JUMPER SHORT	TP6002 and TP6003 MAIN C.B.A.

2. SPECIFICATION

3-8. BACK TENSION	22.5 ~ 27.5 g
3-11. FG GAP	0.15 ± 0.04mm
3-12. PINCH PRESSING FORCE	1140 ± 250 g

CIRCUIT BOARD LAYOUT



BLOCK DIAGRAMS SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

NOTE : How to read the Schmatic diagram.

MIJISSO ⇒ No circuits construct for AG-5260.

D184 ONLY ⇒ AG-5260 used this circuits.

D182,D184,D187 ONLY ⇒ AG-5260 used this circuits.

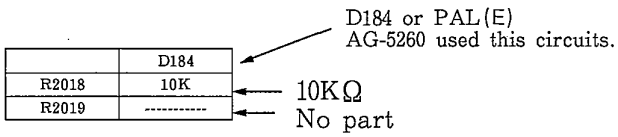
D182 ONLY ⇒ No circuits construct for AG-5260.

D183 ONLY ⇒ No circuits construct for AG-5260.

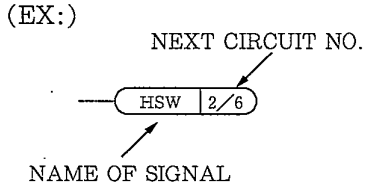
D187 ONLY ⇒ No circuits construct for AG-5260.

* mark ⇒ Parts value, see table in the schematic diagram.

(EX:)



(EX:)



TITLE OF CIRCUIT	CIRCUIT NO.
SYSCON/SERVO	1/6
MOTOR DRIVE	2/6
INTERFACE	3/6
VIDEO 1 (Y)	4/6
VIDEO 2 (C)	5/6
AUDIO (MAIN)	6/6

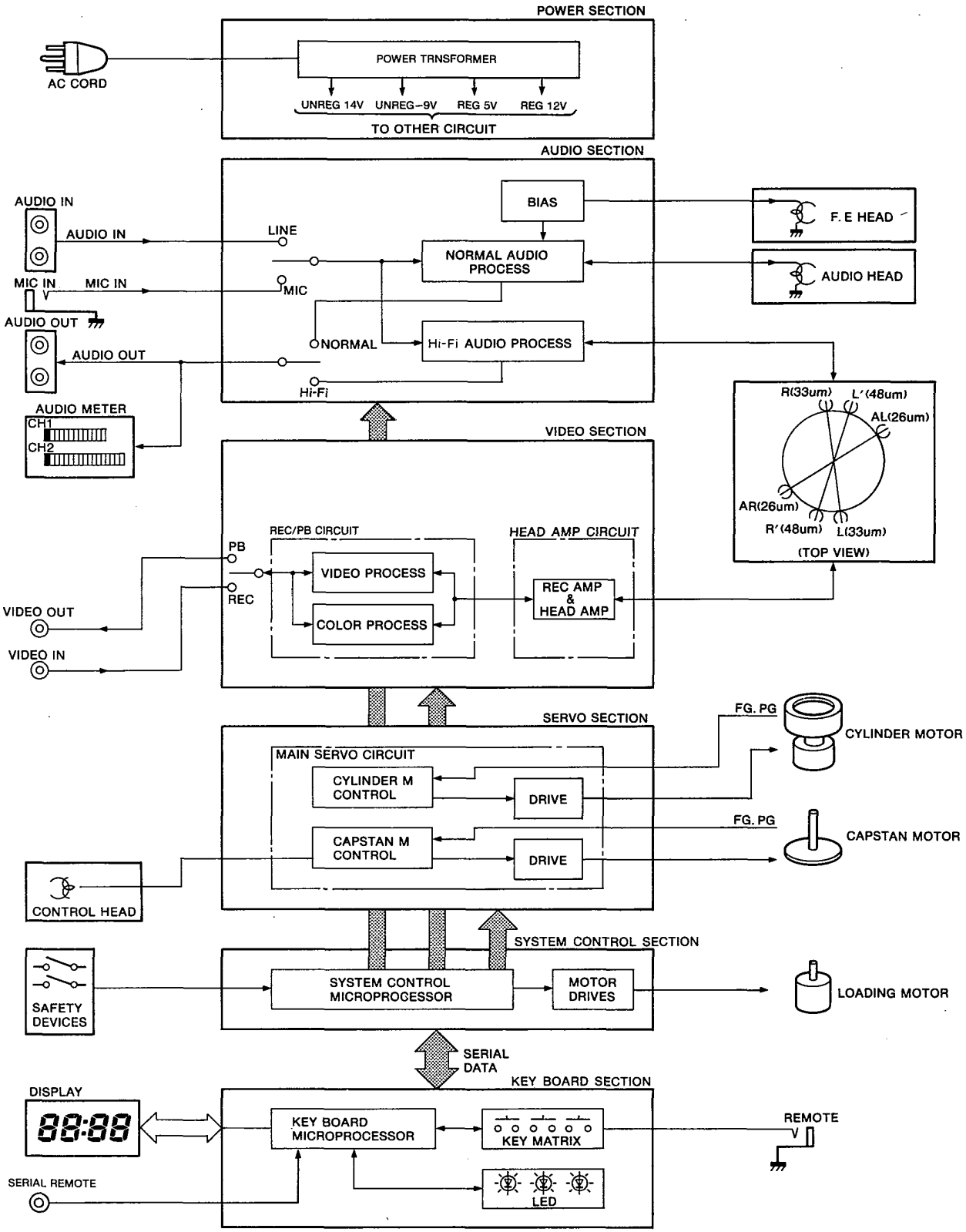
NOTE : Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

5-1. ABBRIVIATIONS

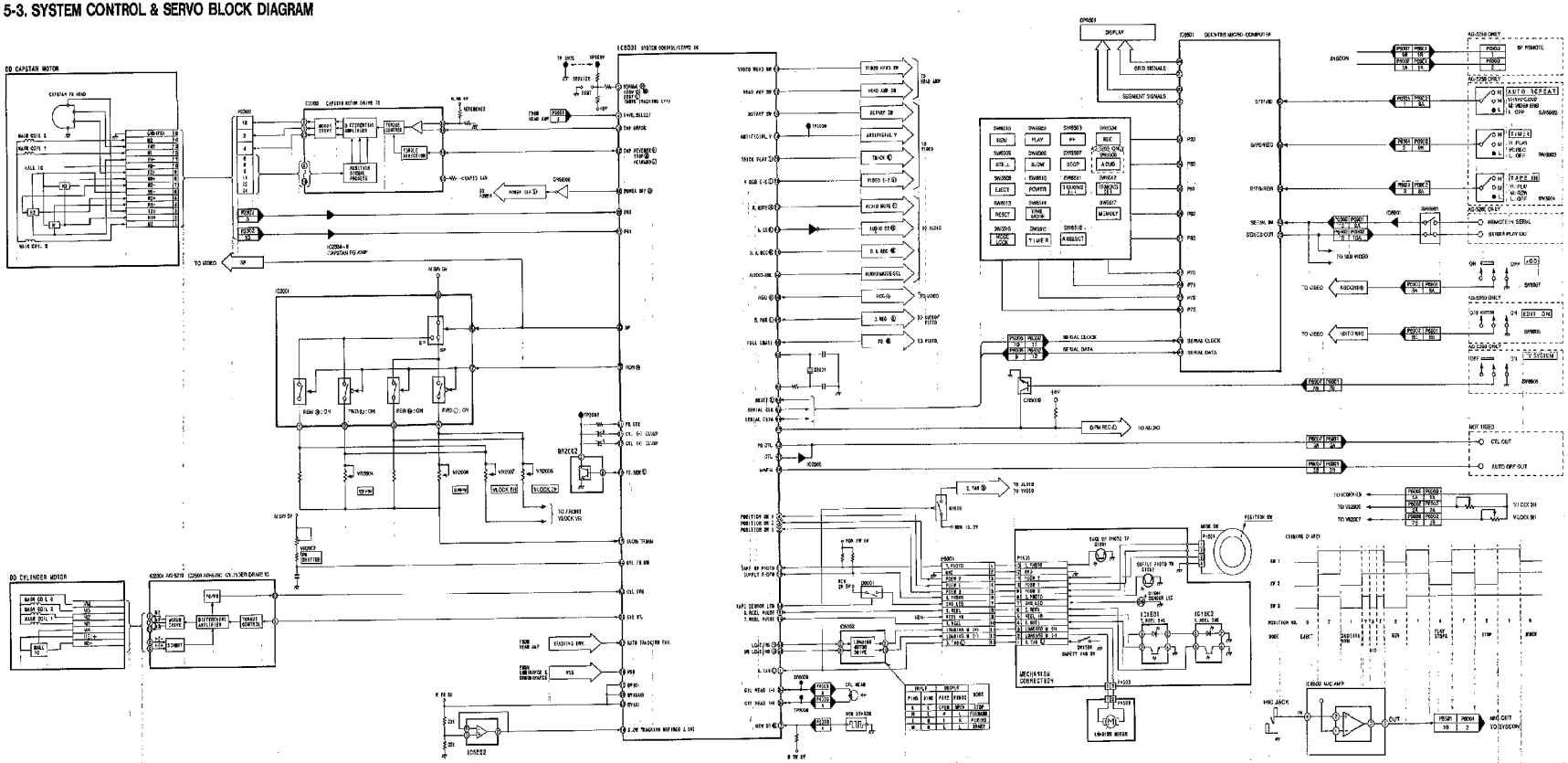
A MODE SEL	AUDIO MODE SELECT		FLY E	FLYING ERASE
A.DUB.P(L)	AUDIO DUBBING PAUSE (L)		FM MUTE(H)	FM AUDIO MUTE (H)
A.E.HEAD	AUDIO ERASE HEAD		H_A_SW	HEAD AMP SWITCING PULSE
A.HEAD(R)	AUDIO HEAD (REC)		H_METER_RST	HOUR METER RESET
A.HEAD(W)	AUDIO HEAD (PLAY)		HIFI REC(L)	FM AUDIO RECORDING(L)
A_HSW	AUDIO HEAD SWITCING PULSE		HSS	HORIZONTAL SYNC SIGNAL
AE	AUDIO ERASE		HSW	HEAD SWITCING PULSE
AGC	AUTO GAIN CONTROL		L(EP)	VIDEO L- CH FOR EP MODE
AGC ON(H)	AUTO GAIN CONTROL ON (H)		L(SP)	VIDEO L- CH FOR SP MODE
AL(AUDIO)	AUDIO L-CH SIGNAL		LOADING M(+)	LOADING MOTOR (+)
ANALOG REM IN	ANALOG REMOTE SIGNAL IN		LOADING M(-)	LOADING MOTOR (-)
ANALOG_IN	ANALOG REMOTE SIGNAL IN		M GND	MOTOR GND
AR(AUDIO)	AUDIO R-CH SIGNAL		METER_CH1	AUDIO METER CH1
ART_V	ARTIFICAL VERTICAL SYNC SIGNAL		METER_CH2	AUDIO METER CH2
			MIC GND	MICROPHONE GND
AUDIO EE(H)	AUDIO EE MODE (H)		MIC IN	MICROPHONE SIGNAL INPUT
AUTO OFF OUT	AUTO OFF SIGNAL OUT		MIC(H)	MICROPHONE SIGANL REC (H)
BACK SYS 5V	BACK UP 5V FOR SYSTEM CONTROL CIRCUIT		MIX OUT	AUDIO CH1/CH2 SIGNAL MIX OUTPUT
BACK UP 5V	BACK UP 5V DC		NOR REC(L)	NORMAL AUDIO RECORDING(L)
BIAS	AUDIO BIAS SIGNAL		PB LEVEL	PLAYBACK SIGNAL LEVEL
CAP ET	CAPSTAN ERROR TORQUE CONTROL		PB SIGNAL	PLAYBACK VIDEO SIGNAL
			PFG	PG/FG
CAP FG1	CAPSTAN FG1 PULSE		POS SW1~3	MECHANISUM POSITION SWITCH
CAP FG2	CAPSTAN FG2 PULSE		POWER OFF(L)	AC POWER OFF (L)
CAP RSF	CAPSTAN REV/STOP/FWD		R(EP)	VIDEO R- CH FOR EP MODE
CAP VM	CAPSTAN DRIVE VOLTAGE		R(SP)	VIDEO R- CH FOR SP MODE
COR	CORREATION SIGNAL		REC GATE(L)	RECORDING GATE (L)
CTL OUT	CONTROL SIGNAL OUT		REC_C	RECORDING CHROMINANCE SIGNAL
CTL(+)	CONTROL HEAD (+)			
CTL(-)	CONTROL HEAD (-)		REC_Y	RECORDING LUMINANCE SIGNAL
CUL	CAPSTAN SPEED CONTROL SIGNAL (H,M,High Impedance)		REC(H)	RECORDING (H)
			REEL +B	REEL PHOTE SENSOR DC
CYL ET	CYLINDER ERROR TORQUE CONTROL		RF_C	RF CHROMINANCE SIGNAL
			RF_OUT	RF SIGNAL OUT
CYL PFG	CYLINDER PG/FG PULSE		RF_Y	RE LUMINANCE SIGNAL
D FM REC (L)	DELAIED FM REOCRDING (L)		RF_Y_IN	RF LUMINANCE SIGNAL INPUT
D REC (H)	DELAIED RECORDING (H)		RE_Y_OUT	RF LUMINANCE SIGNAL OUTPUT
DEW SENSE	DEW SENSOR		ROTARY SW	ROTARY SWITCH
E_REC_5V	EXCEPT RECORDING 5V		S NONSW 5V	NON SWITCING 5V FOR SYSTEM CONTROL CIRCUIT
EDIT_ON(H)	EDIT ON (H)			
EE(H)	RECORDING (H)		S PHOTO	SUPPLY REEL PHOTO SENSOR
ENV_SEL	RF ENVELOPE SELECT		S REEL	SYPPLY REEL PULSE
ENVE.OUT	RF ENVELOPE SIGNAL OUT		S TAB SW	SAFETY TAB SWITCH
FE(1)	FULL ERASE(1)		S VHS(H)	SVHS SIGNAL DETECT (H)
FE(2)	FULL ERASE(2)		SCK F	SERIAL CLOCK FOR FRONT

SDA F	SERIAL CLOCK FOR FRONT
SERIAL IN	SERIAL REMOTE SIGNAL IN
SERIAL OUT	SERIAL REMOTE SIGNAL OUT
SFR	MOTOR DIRCTION STOP/ FWD/ REV
SNS LED	SENSOR LED
SP/ EP	SP/ EP MODE SELECT
T PHOTO	TAKE UP PHOTO TRANSISTOR
T REEL	TAKE UP REEL PULSE
TRAC ENV	TRACKING ENVELOPE
TRICK (L)	STILL,SEARCH MODE (L)
UNREG −9V	UNREGULATOR −9V
UNREG 14V	UNREGULATOR 14V
V LOCK 2H	VERTICAL LOCK 2H SPEED
V LOCK 6H	VERTICAL LOCK 6H SPEED
V NONSW 5V	NON SWITCHING 5V FOR VIDEO
V SYNC	VERTICAL SYNC SIGNAL
VIDEO EE(L)	VIDEO RECORDING MODE (L)
VR CH1	AUDIO CH1 RECORDING VOLUME
VR CH2	AUDIO CH2 RECORDING VOLUME
YNR_ IN	LUMINANCE NOISE REDUCTION SIGNAL IN
YNR_ OUT	LUMINANCE NOISE REDUCTION SIGNAL OUT

OVER ALL BLOCK DIAGRAM

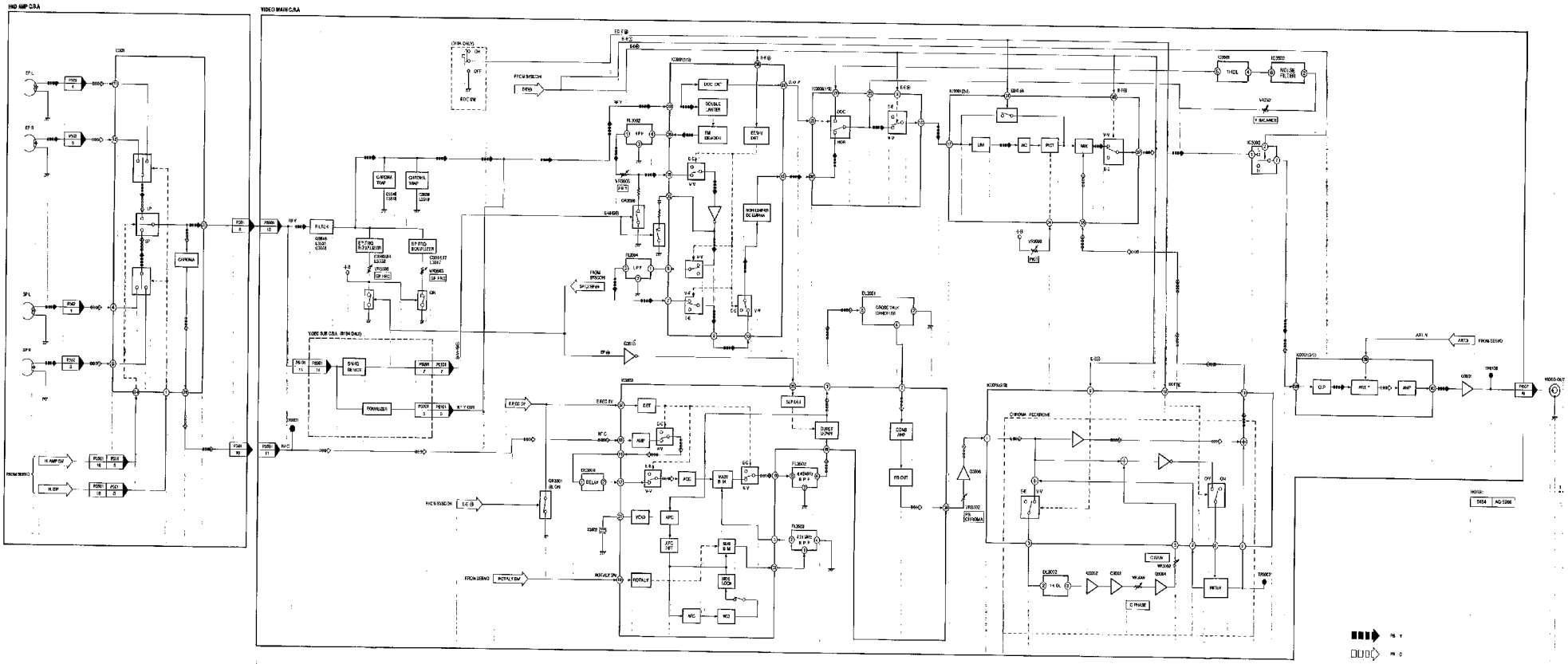


5-3. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

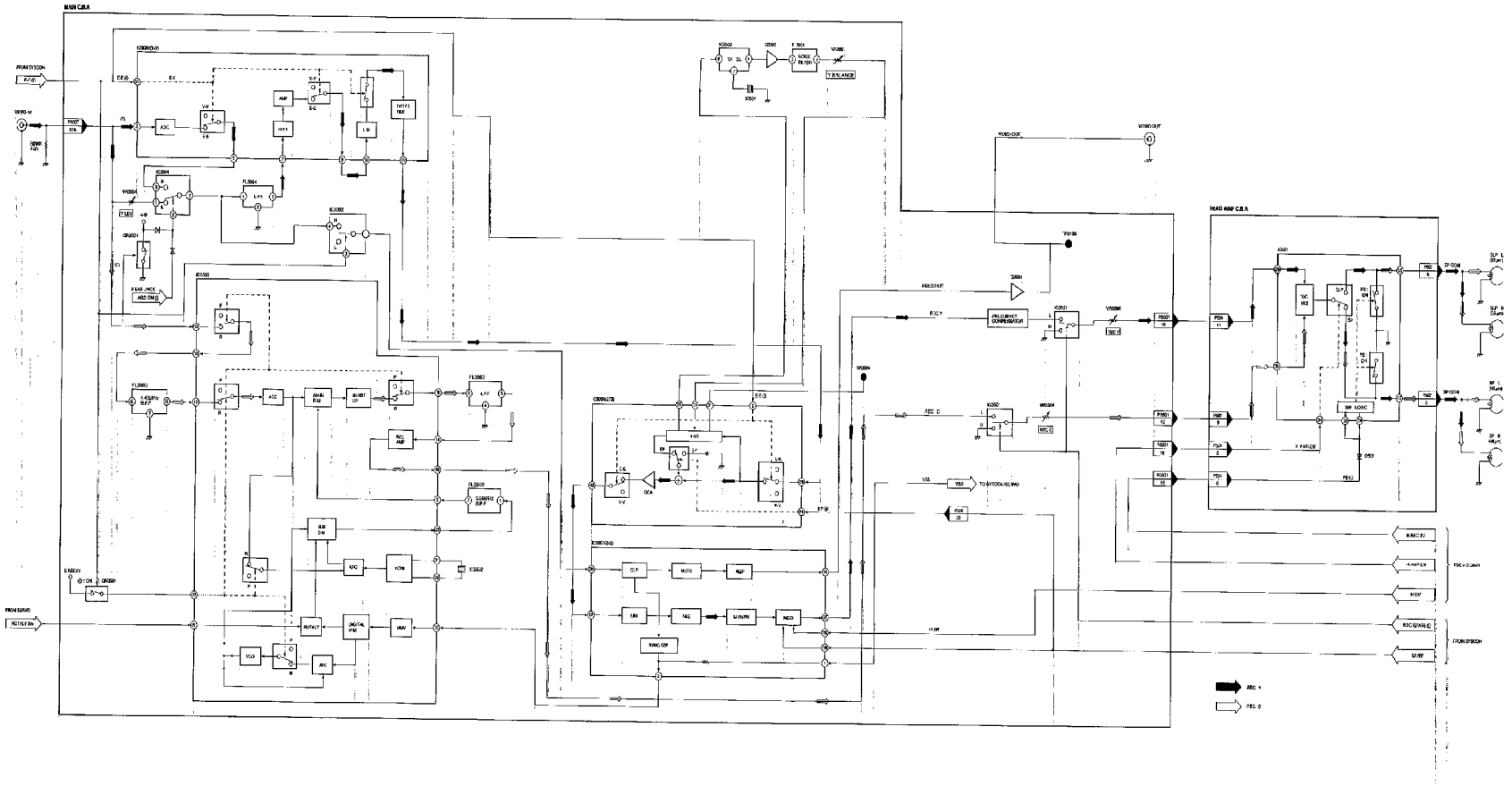


SYMBOL	TRUTH VALUE TABLE
INVERTER	IN (a): H, L OUT (b): L, H
COMPARTOR	IN (a), (b): (a)>(b), (a)<(b) OUT (c): H, L
AND CIRCUIT	IN (a), (b): L L, L H, H L, H H OUT (c): L, L, L, H
OR CIRCUIT	IN (a), (b): L L, L H, H L, H H OUT (c): L, H, H, H
THREE STATES BUFFER	IN (a): H, L, H or L (b): L, L, H OUT (c): H, L, ※ ※ High Impedance
TR. SW (NPN TYPE)	BASE: H, L TR. SW: ON, OFF
TR. SW (PNP TYPE)	BASE: H, L TR. SW: OFF, ON
R-S TYPE FLIP-FLOP	IN (a): L, L, ⎍ (b): L, ⎍, L OUT (c): ※, L, H (d): ●, H, L ※ Initial condition is maintained. ● Initial condition is reversed.

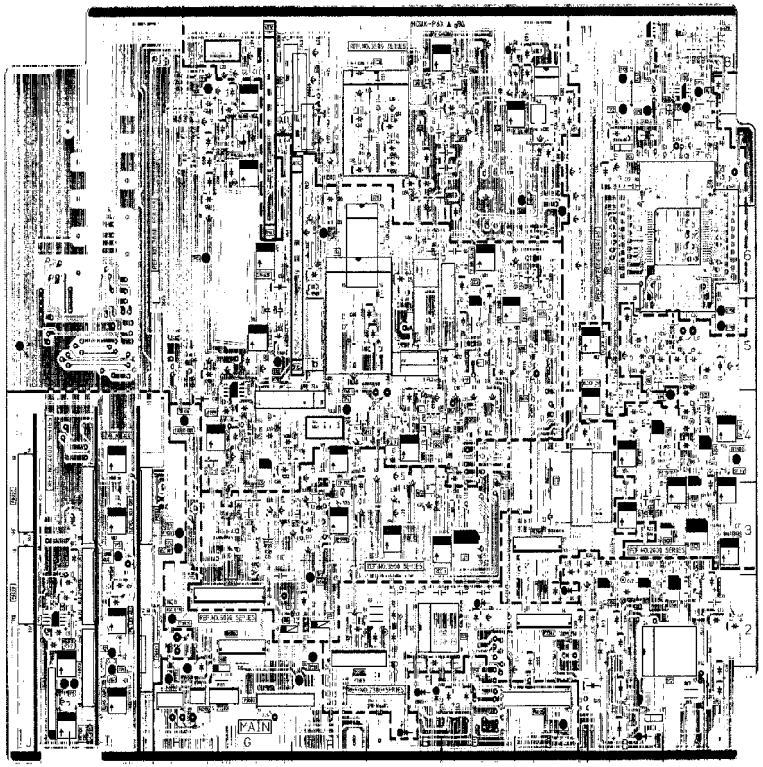
5-4. VIDEO(PLAY) BLOCK DIAGRAM



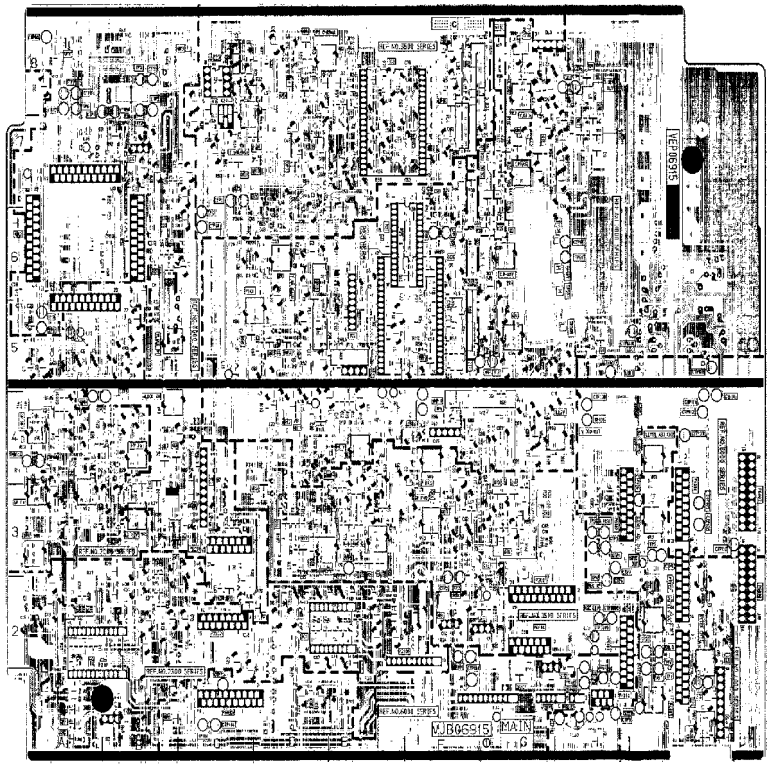
5-5. VIDEO(REC) BLOCK DIAGRAM



6-1. MAIN C.B.A. (VEP06915E)



(COMPONENT SIDE)



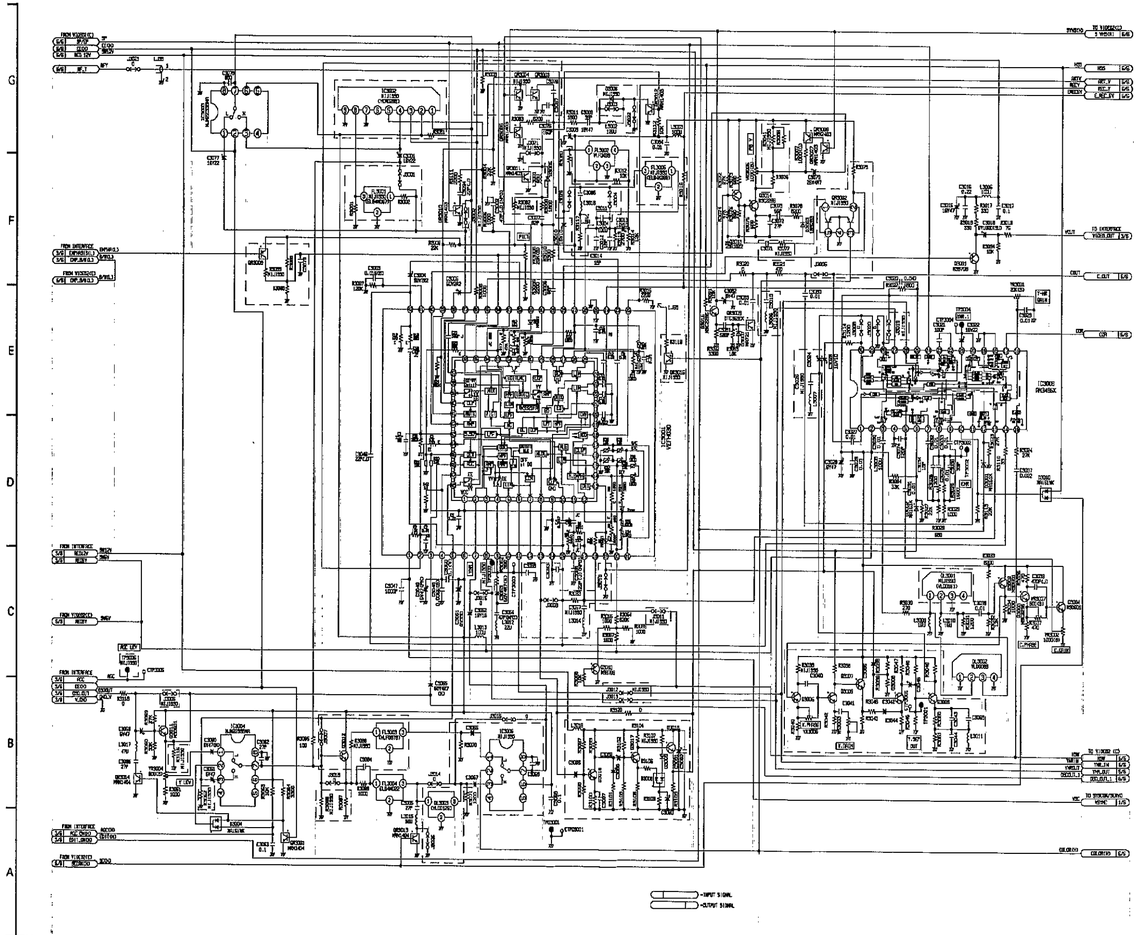
(FOIL SIDE)

MAIN(VEP06915E)

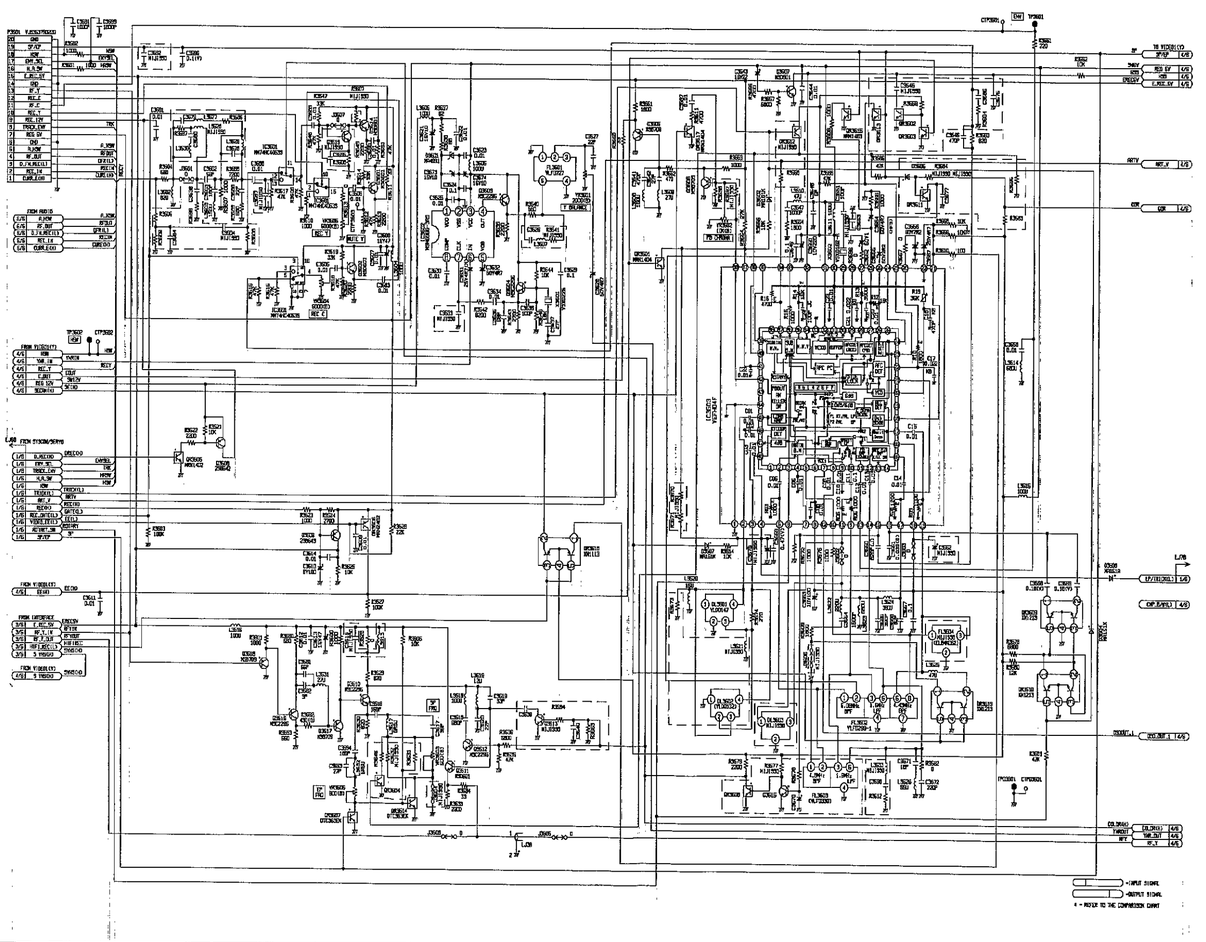
COMPONENT SIDE				FOIL SIDE	
TRANSISTOR		TP4C05	I-1	TRANSISTOR	
Q3001	H-4	TP4C07	J-1	Q3001	H-5
Q3003	D-4	TP5C01	B-6	Q3002	B-6
Q3014	D-4	TPEC02	B-8	Q3003	B-5
Q3016	C-5	TPEC03	B-8	Q3004	B-5
Q3508	G-2	TPEC04	A-4	Q3005	B-6
Q3509	F-2	TPEC05	A-4	Q3006	B-7
Q3510	G-3	TPEC06	A-8	Q3007	B-7
Q3512	F-3	TPEC07	A-8	Q3008	B-7
Q3002	A-6	TPEC08	A-5	Q3009	H-6
Q3101	G-2	TPEC09	A-5	Q3010	F-5
TRANSISTOR RESISTOR		TPE101	F-2	Q3012	F-4
QR6001	B-5	TPE102	H-1	Q3016	B-7
QR3001	G-4	TPE103	H-1	Q3017	H-7
QR3002	E-4	TPE104	C-1	Q3018	H-7
QR3005	G-5	TPE105	H-4	Q3501	E-8
QR3006	E-4	TP53001	H-9	Q3502	E-8
QR3007	E-4	TP53501	C-6	Q3503	D-8
QR3009	C-6	CONNECTOR		Q3504	D-7
QR3013	F-4	P2301	F-2	Q3505	D-8
QR3014	G-4	P2302	C-2	Q3506	D-8
QR3015	C-5	P2303	G-1	Q3507	E-8
QR3307	F-3	P3501	G-2	Q3511	G-3
QR3513	D-7	P4001	I-3	Q3513	G-3
QR3515	D-7	P4002	I-2	Q3514	D-8
QR3517	E-8	P4003	I-2	Q3515	E-7
QR3518	D-8	P4004	H-1	Q3516	G-3
QR6002	A-7	P6001	C-8	Q3517	G-3
QR6005	A-6	P6002	H-1	Q3518	G-3
QR6006	A-6	P6003	G-1	Q3519	D-8
INTEGRATED CIRCUITS		P6004	G-2	Q6001	C-2
IC2001	A-3	P6005	C-1	Q6004	D-2
IC2004	A-4	P6007	J-3	TRANSISTOR RESISTOR	
IC2002	A-2	P6008	J-2	QR2001	A-1
IC2003	B-1	ADJUSTMENT		QR3002	A-1
IC2004	A-2	VR2001	A-3	QR3003	D-5
IC2005	B-2	VR2002	A-3	QR3004	D-5
IC2006	B-2	VR2003	B-3	QR3005	D-5
IC3001	F-5	VR2004	B-4	QR3010	D-6
IC3002	E-5	VR2005	A-4	QR3011	D-4
IC3003	D-5	VR2006	A-3	QR3012	D-4
IC3004	G-5	VR2007	B-5	QR3501	D-8
IC3005	G-4	VR2008	B-4	QR3502	D-7
IC3006	F-5	VR3001	D-6	QR3503	D-7
IC3501	D-3	VR3002	G-5	QR3504	F-3
IC3502	C-5	VR3003	G-6	QR3505	G-2
IC3503	E-3	VR3004	G-4	QR3506	D-3
IC4001	J-2	VR3005	E-4	QR3508	E-7
IC4002	J-1	VR3006	G-7	QR3509	D-7
IC6001	A-5	VR3007	G-6	QR3511	D-7
IC6003	C-4	VR3008	D-5	QR3512	D-8
IC6004	B-7	VR3501	C-7	QR3513	D-7
IC6006	A-5	VR3502	D-8	QR3514	F-3
TESTPOINT		VR3503	F-8	QR3515	F-8
TP3301	H-8	VR3504	E-8	QR6001	B-4
TP3302	F-6	VR3505	D-3	QR6003	B-1
TP3303	G-5	VR3506	F-4	QR6101	G-1
TP3304	F-4	VR4001	H-1	INTEGRATED CIRCUITS	
TP3305	H-2	VR4002	H-3	IC6002	B-5
TP3501	C-7	VR4003	H-1		
TP3502	F-3	VR4004	J-1		
TP4301	I-1	VR4005	J-2		
TP4302	I-2	VR4006	I-2		
TP4303	H-3				
TP4304	H-3				
TP4305	I-3				

ADDRESS INFORMATION

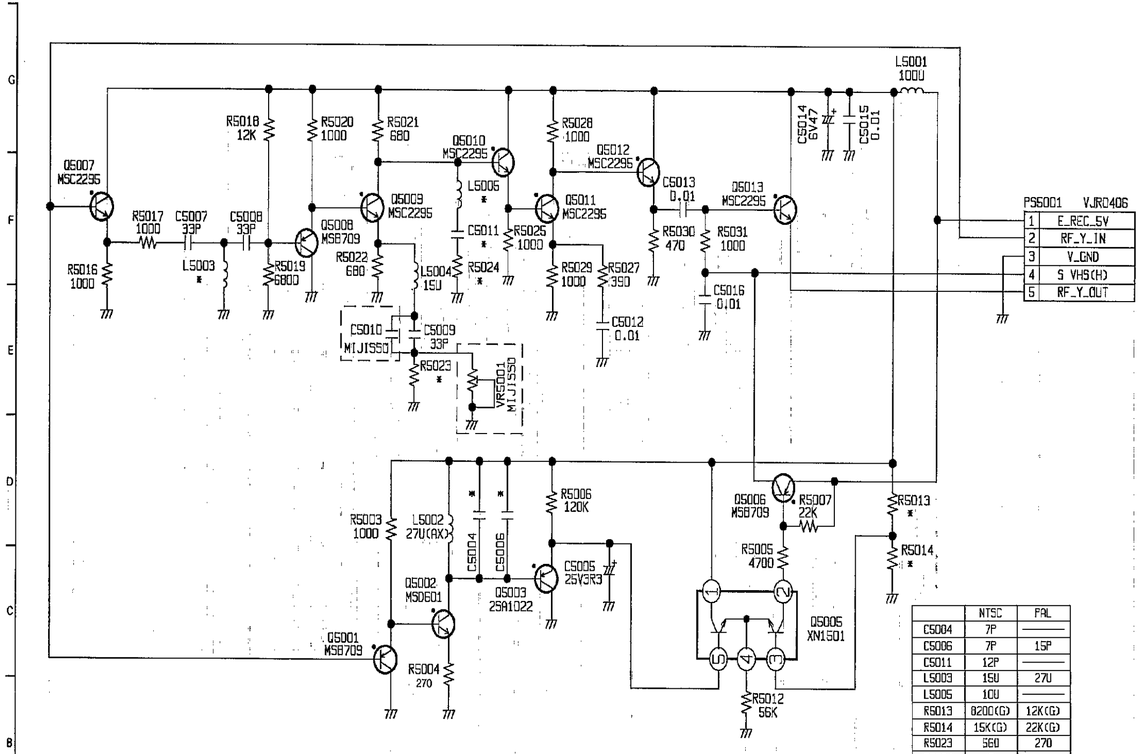
6-2. VIDEO1 SCHEMATIC DIAGRAM



6-3. VIDEO2 SCHEMATIC DIAGRAM

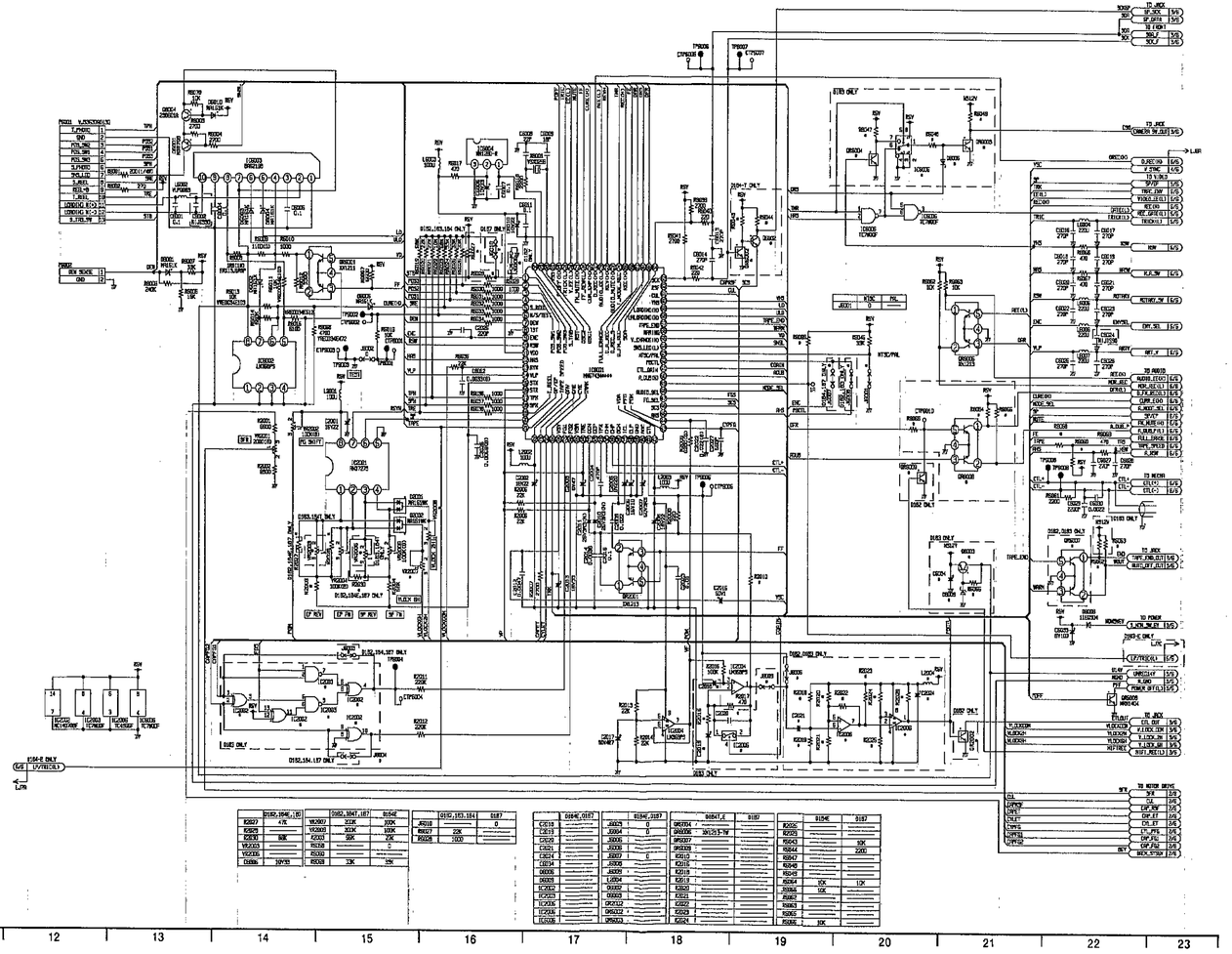


6-4. S-VHS PB PACK SCHEMATIC DIAGRAM

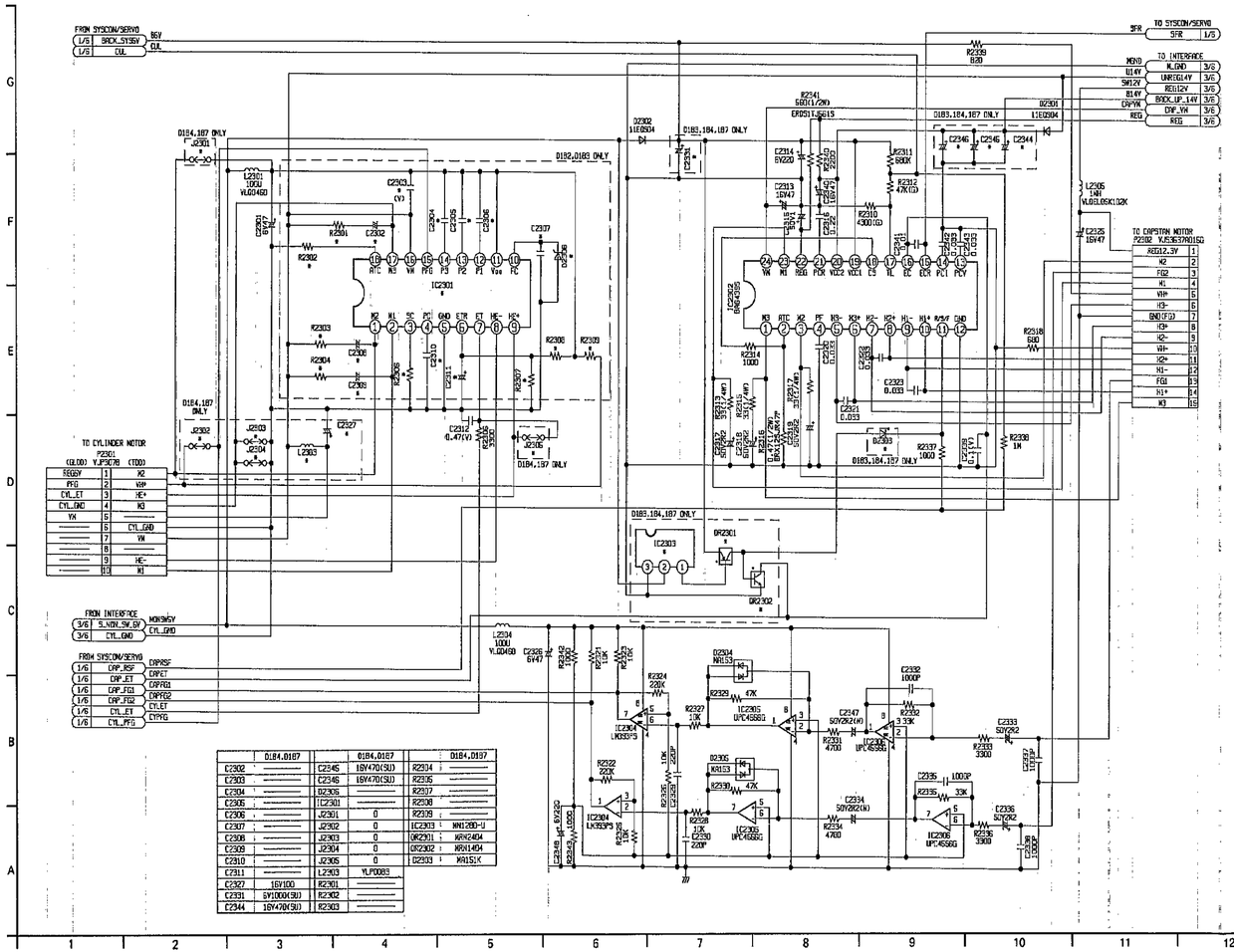


	NTSC	PAL
C5004	7P	——
C5006	7P	15P
C5011	12P	——
L5003	15U	27U
L5005	10U	——
R5013	8200(G)	12K(G)
R5014	15K(G)	22K(G)
R5023	560	270
R5024	0	——

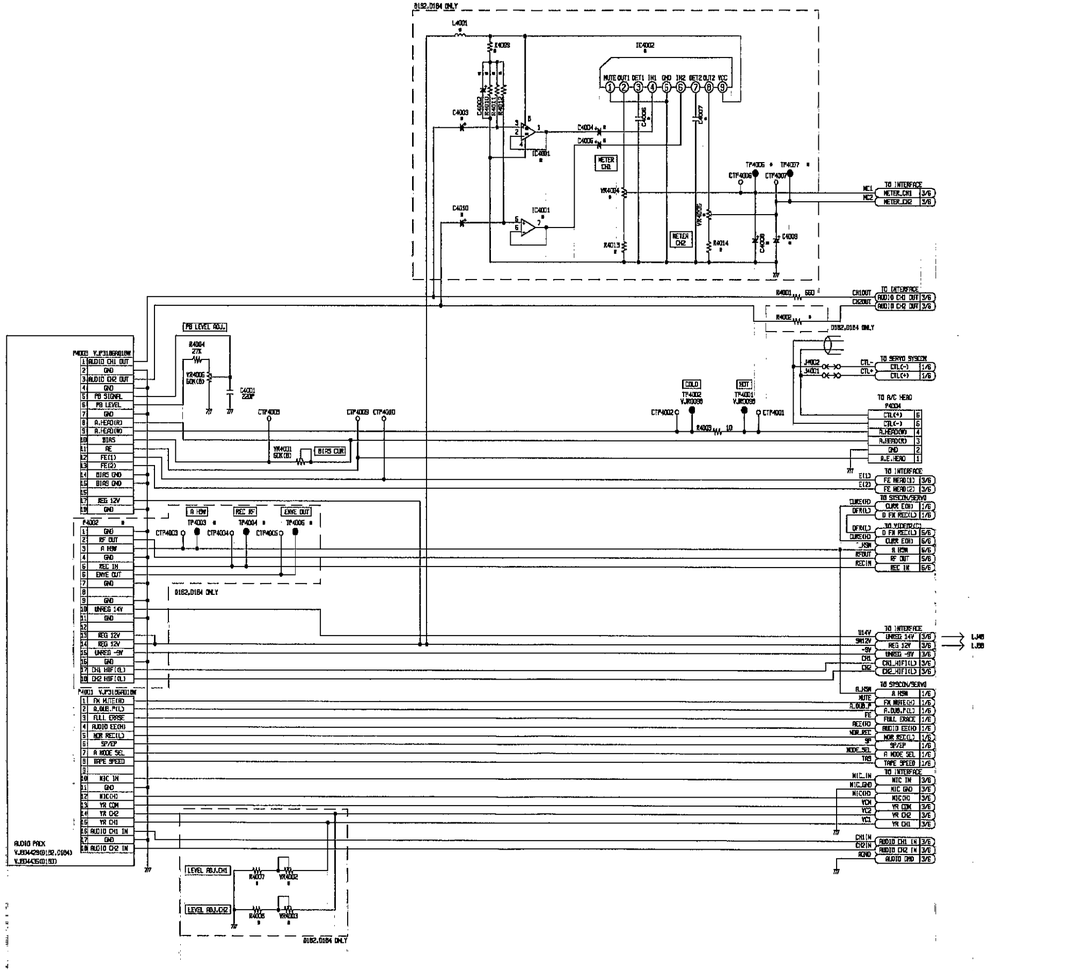
6-5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



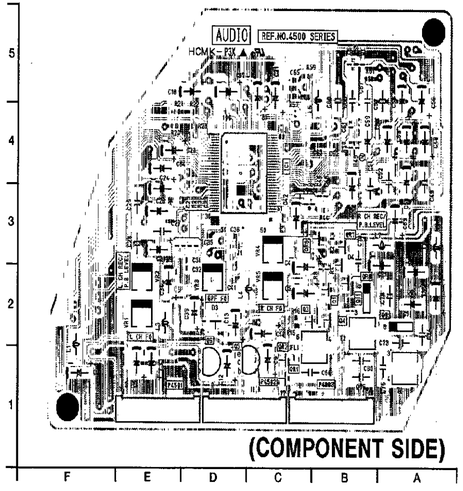
6-6. MOTOR DRIVE SCHEMATIC DIAGRAM

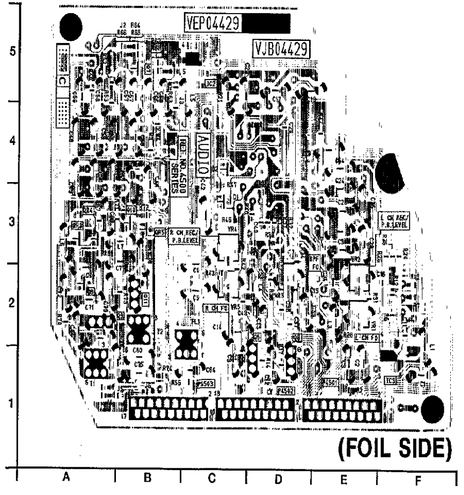


6-7. AUDIO MAIN SCHEMATIC DIAGRAM



6-8. AUDIO C.B.A. (VEP04429D)

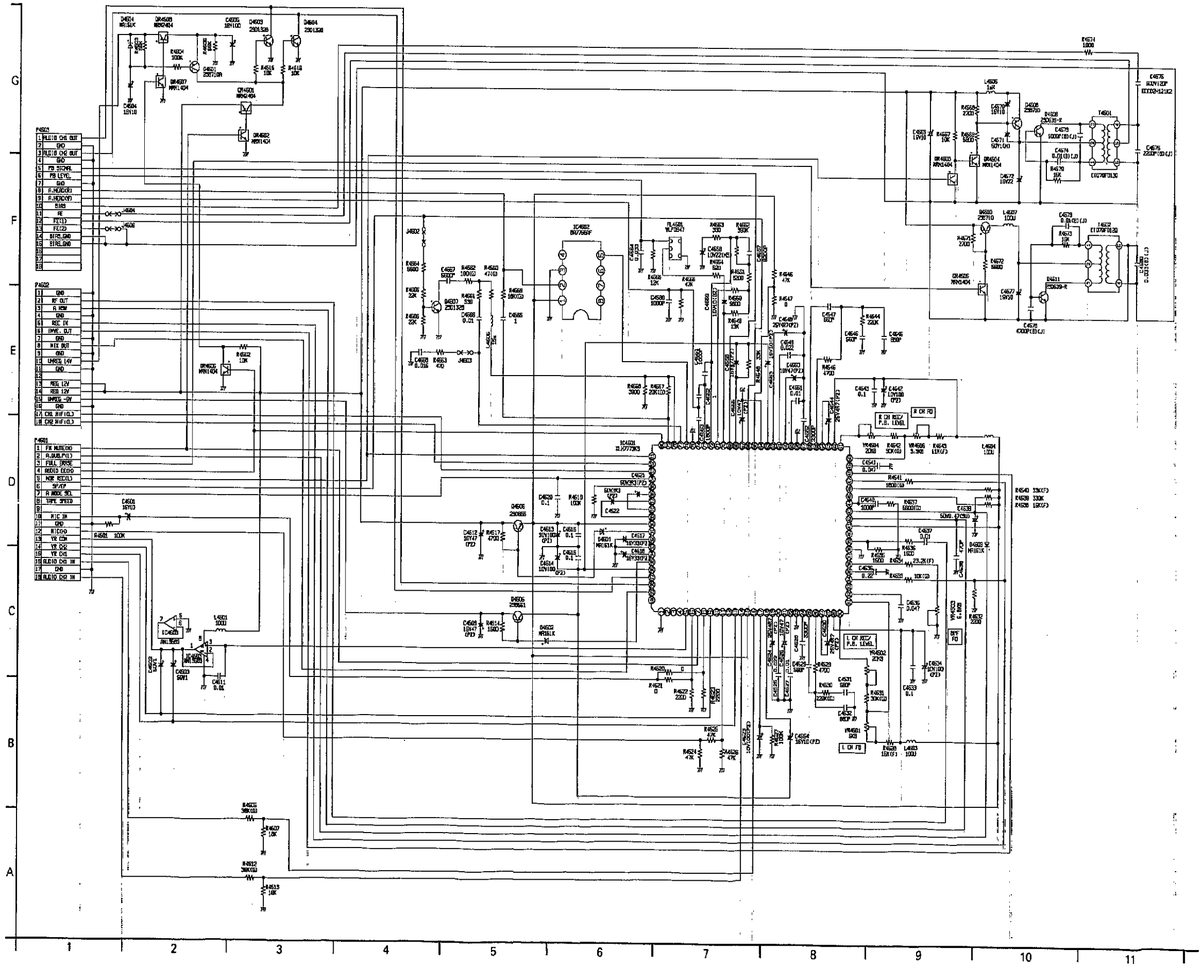




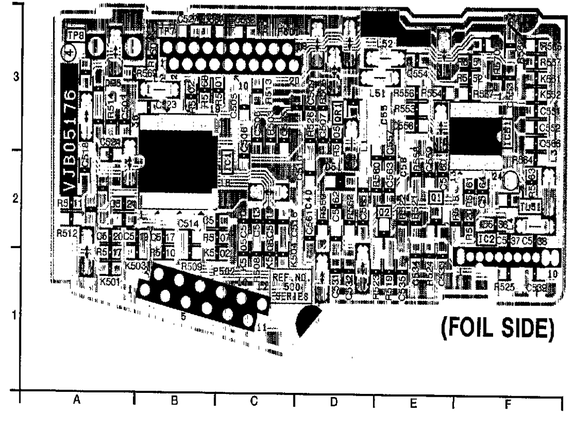
AUDIO(VEP04429D)			
COMPONENT SIDE		FOIL SIDE	
TRANSISTOR		TRANSISTOR	
Q4501	B-2	Q4507	B-3
Q4503	C-2	Q4508	A-2
Q4504	B-2	Q4510	B-3
Q4505	D-1	TRANSISTOR RESISTOR	
Q4506	D-1	QR4503	A-3
Q4509	A-2	QR4504	A-3
Q4511	B-2	QR4505	B-3
TRANSISTOR RESISTOR		INTEGRATED CIRCUITS	
QR4501	C-1	IC4502	D-3
QR4502	C-1	IC4503	F-1
QR4506	B-3		
QR4507	B-3		
QR4508	B-2		
INTEGRATED CIRCUITS			
IC4501	D-1		
CONNECTOR			
P4501	E-1		
P4502	D-1		
P4503	B-1		
ADJUSTMENT			
VR4501	E-2		
VR4502	E-2		
VR4503	D-2		
VR4504	C-3		
VR4505	C-2		

ADDRESS INFORMATION

6-9. AUDIO SCHEMATIC DIAGRAM



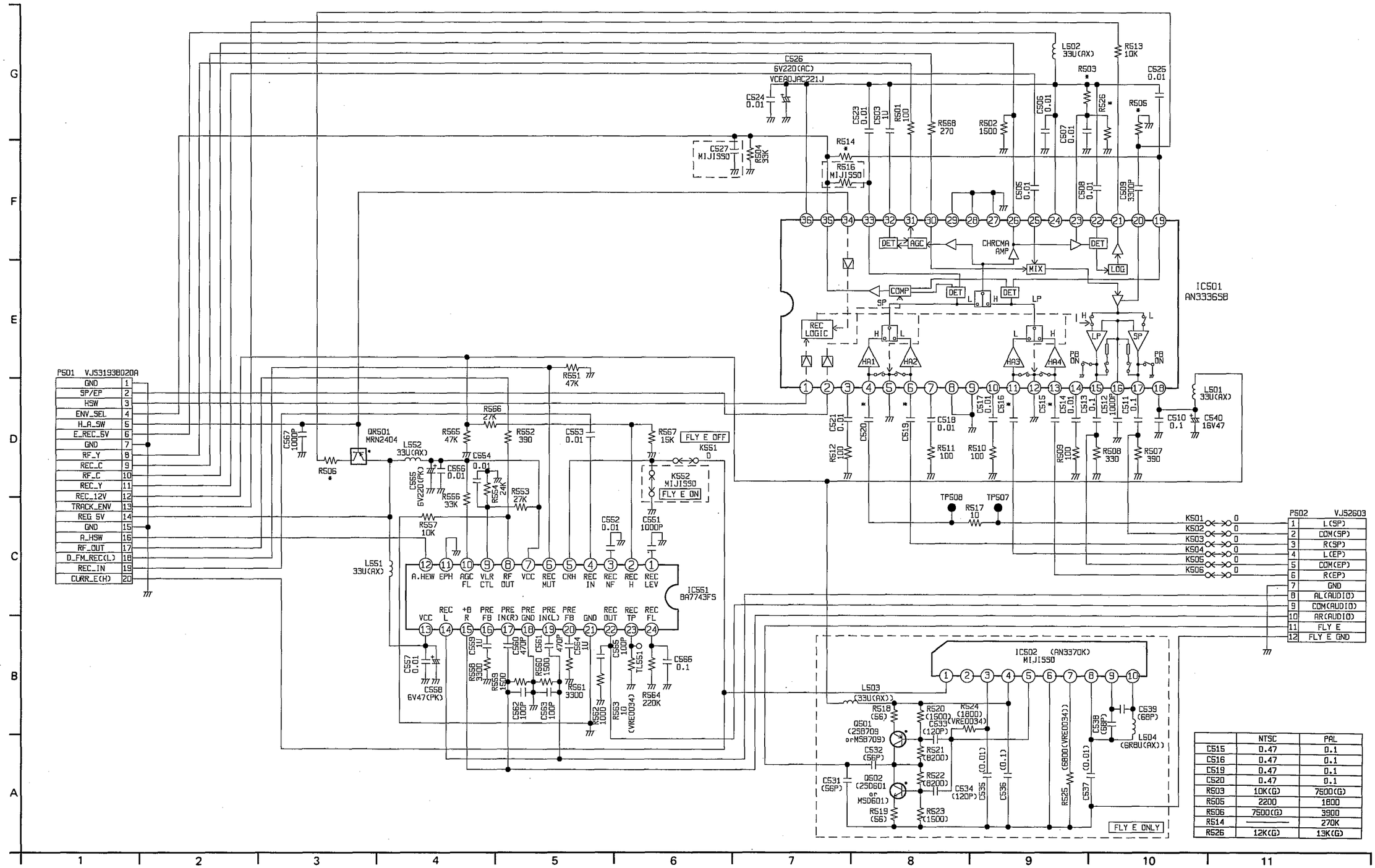
6-10. HEAD AMP PACK C.B.A. (VEP05176C)



HEAD AMP PACK(VEP05176C)			
TRANSISTOR		TESTPOINT	
Q501	E-2	TP507	A-3
Q502	E-2	TP508	A-3
TRANSISTOR RESISTOR		CONNECTOR	
QR501	D-3	P501	C-3
		P502	B-1
INTEGRATED CIRCUITS			
IC501	E-2		
IC502	F-2		
IC551	F-3		

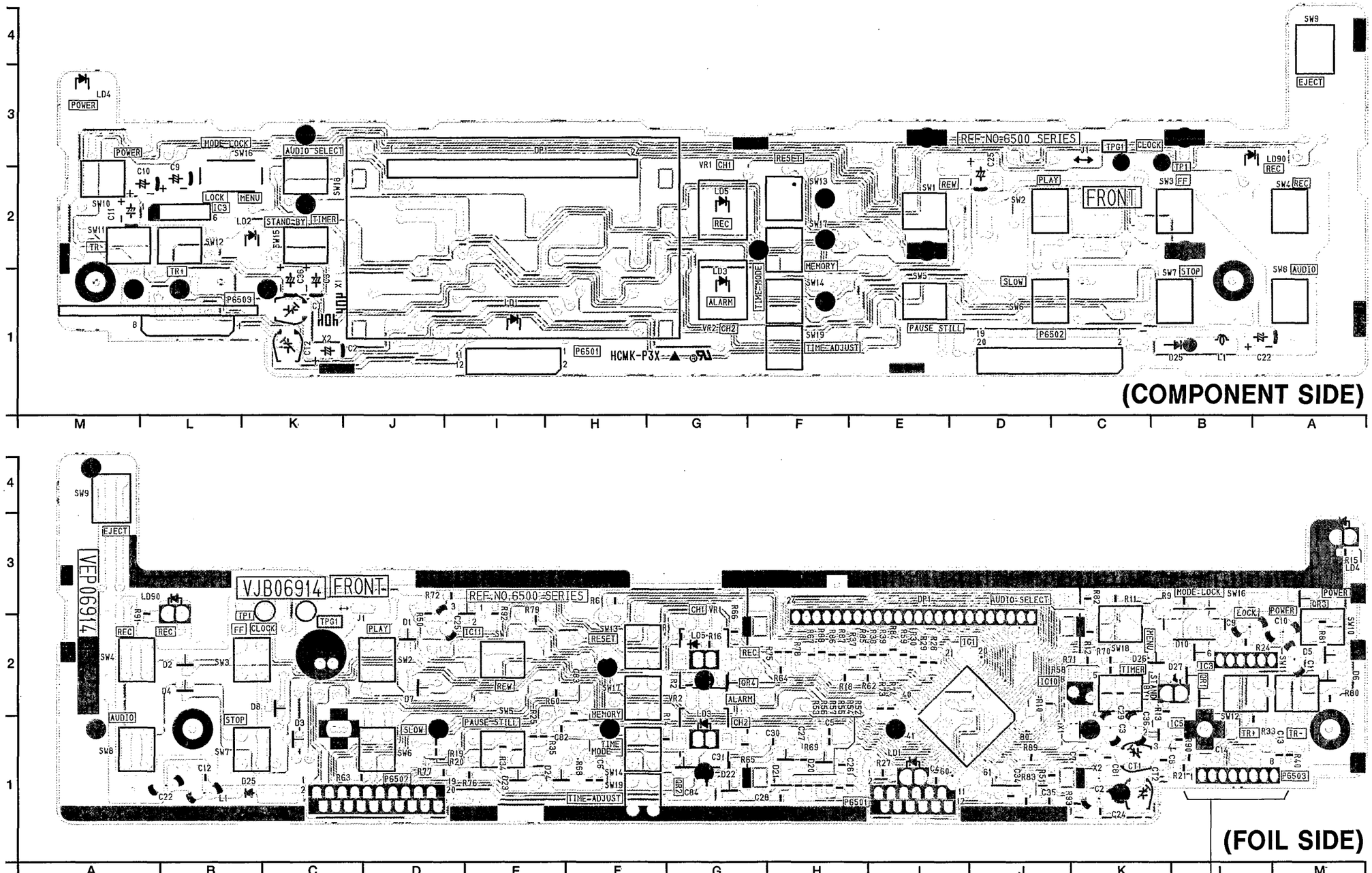
ADDRESS INFORMATION

6-11. HEAD AMP PACK SCHEMATIC DIAGRAM



	NTSC	PAL
C515	0.47	0.1
C516	0.47	0.1
C519	0.47	0.1
C520	0.47	0.1
R503	10K(G)	7500(G)
R505	2200	1800
R506	7500(G)	3900
R514	——	270K
R526	12K(G)	13K(G)

6-12. FRONT C.B.A. (VEP06914E)



6-13. FRONT & FRONT JACK SCHEMATIC DIAGRAM

FRONT(VEP06914E)			
COMPONENT SIDE		FOIL SIDE	
INTEGRATED CIRCUITS		TRANSISTOR RESISTOR	
IC6503	L-2	QR6503	M-3
TESTPOINT		QR6504	G-2
TP6501	C-3	INTEGRATED CIRCUITS	
TPG6501	C-3	IC6501	I-2
CONNECTOR		IC6505	K-1
P6501	I-1	IC6510	J-2
P6502	D-1		
P6503	L-1		
ADJUSTMENT			
VR6501	G-2		
VR6502	G-1		
SWITCH			
SW6501	E-2		
SW6502	D-2		
SW6503	B-2		
SW6504	A-2		
SW6505	E-1		
SW6506	D-1		
SW6507	B-1		
SW6508	A-1		
SW6509	A-4		
SW6510	M-2		
SW6511	M-2		
SW6513	F-2		
SW6514	F-1		
SW6516	L-3		
SW6517	F-2		
SW6518	K-2		

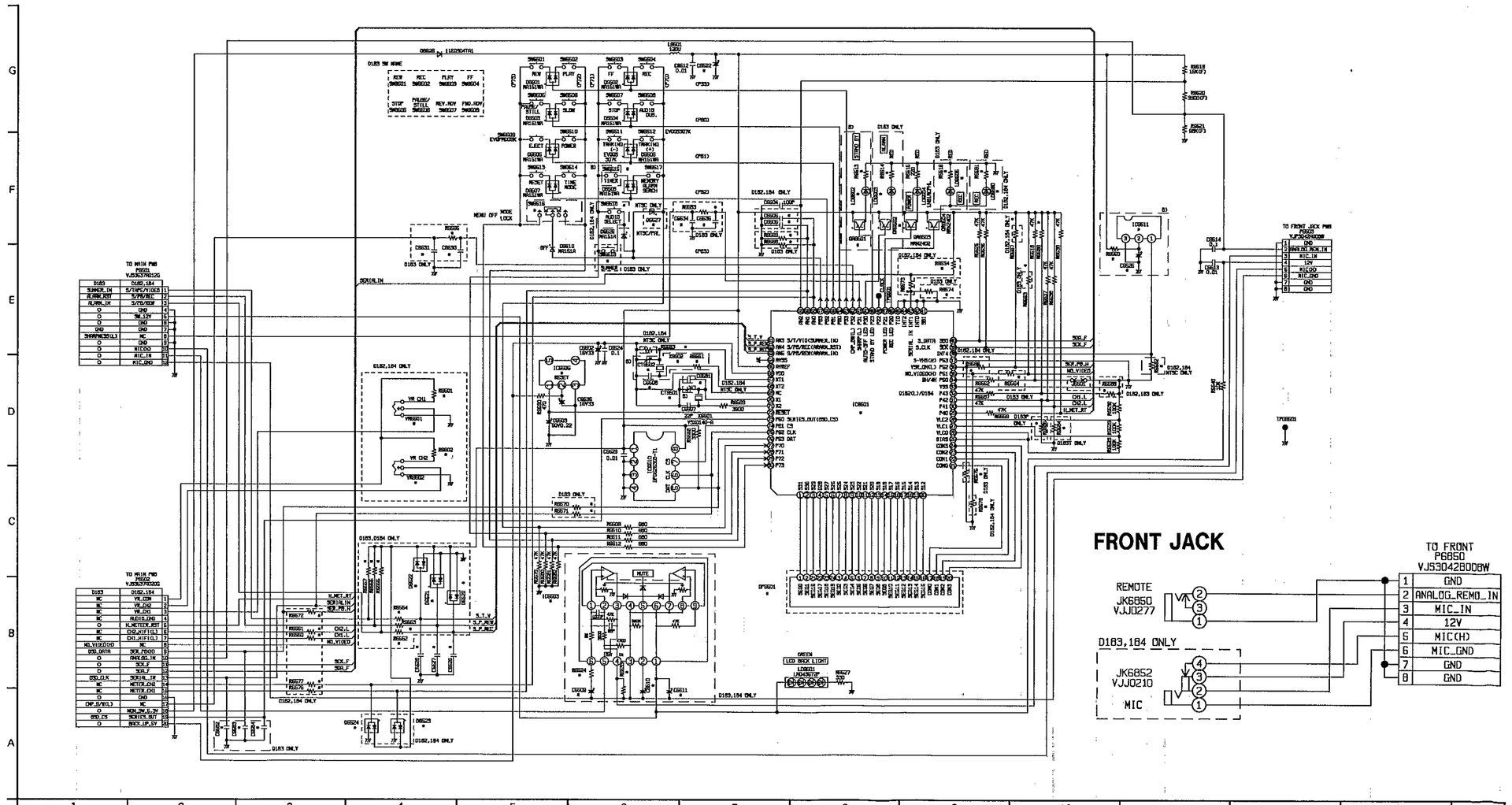
ADDRESS INFORMATION

	D183-T	D183-P	D183-E	D184-E
C6605	———	———	———	100P
C6606	———	———	———	100P
C6608	39P	39P	39P	39P
C6622	10V33	10V33	10V33	6V220
C6625	———	———	———	10V33
C6630	270P	270P	270P	———
C6631	270P	270P	270P	———
C6634	270P	270P	270P	———
C6635	270P	270P	270P	———
C6681	———	———	———	———
CT6601	30P	30P	30P	30P
CT6602	30P	30P	30P	0
D6623	———	———	———	MA153-TW
D6624	———	———	———	MA153-TW
D6627	MA1818	MA1818	———	———
DP6601	E0DD0377B94P	E0DD0377B94P	E0DD0377B94P	E0DD0378B94P
IC6501	UPD753302D79	UPD753302D79	UPD753302D79	UPD753302A52
IC6511	MN1382-RTW	MN1382-RTW	MN1382-RTW	MN1382-RTW
LD6602	LNB1162PHL	LNB1162PHL	LNB1162PHL	LNB1162PHL
LD6603	LNB1162PHL	LNB1162PHL	LNB1162PHL	———
LD6605	LNB1162PHL	LNB1162PHL	LNB1162PHL	———
LD6680	———	———	———	LNB1162PHL
QR6501	MP6Z402T126R	MP6Z402T126R	MP6Z402T126R	MP6Z402T126R
QR6502	MP6Z402T126R	MP6Z402T126R	MP6Z402T126R	———
R6601	———	———	———	2200

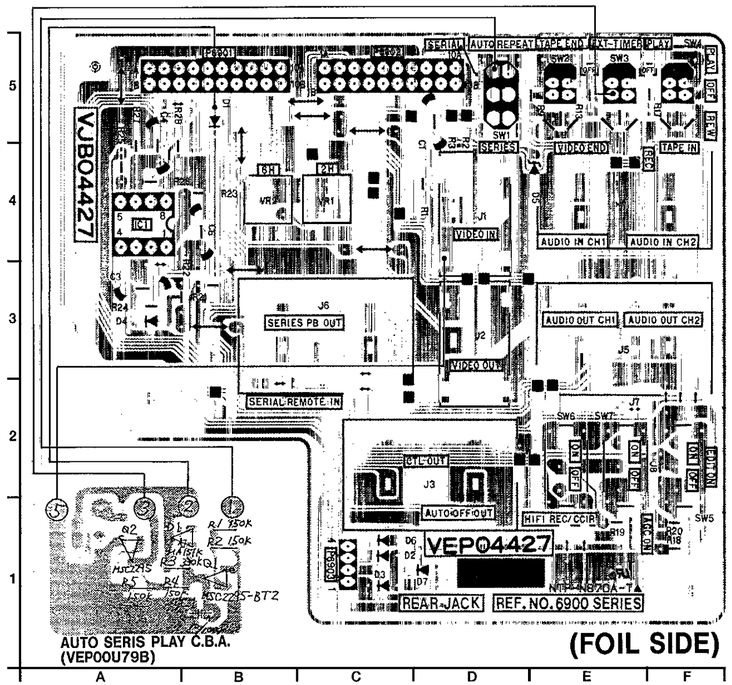
	D183-T	D183-P	D183-E	D184-E
R6602	———	———	———	2200
R6613	220	220	220	220
R6614	220	220	220	———
R6616	220	220	220	———
R6634	———	———	———	47K
R6660	470	470	470	470
R6661	220K	220K	220K	220K
R6665	10K	10K	10K	100K
R6666	10K	10K	10K	100K
R6667	10K	10K	10K	100K
R6669	———	———	———	0
R6671	———	———	———	0
R6672	———	———	———	———
R6673	———	———	———	———
R6674	0	0	0	———
R6675	1000	1000	1000	47K

	D183-T	D183-P	D183-E	D184-E
C6652	1000P	1000P	1000P	———
C6653	1000P	1000P	1000P	———
C6654	1000P	1000P	1000P	———
C6626	100P	100P	100P	100P
C6627	100P	100P	100P	100P
C6628	100P	100P	100P	100P
D6620	MA153-TW	MA153-TW	MA153-TW	MA153-TW
D6621	MA153-TW	MA153-TW	MA153-TW	MA153-TW
D6622	MA153-TW	MA153-TW	MA153-TW	MA153-TW
R2522	10K	10K	10K	10K
R2523	10K	10K	10K	10K
R6654	10K	10K	10K	10K

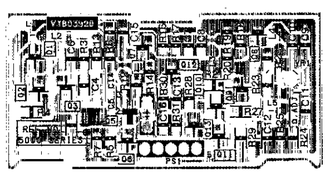
	D183-T	D183-P	D183-E	D184-E
IC6505	MN1382-RTX	MN1382-RTX	MN1382-RTX	MN1382-RTX
R6575	0	0	0	———
R6576	———	———	———	0
R6577	———	———	———	0
R6578	———	———	———	0
R6583	470	470	470	———
R6654	0	———	———	———
R6595	———	0	———	———
R6599	0	0	0	———
R6631	———	———	———	220
R6632	———	———	———	———
R6633	———	———	———	39P
SW6516	EVQ2S307K	EVQ2S307K	EVQ2S307K	EVQ2S307K
SW6518	V2S0049	V2S0049	V2S0049	V2R2049
SW6519	EVQ2S307K	EVQ2S307K	EVQ2S307K	EVQ2S307K
V6582	———	———	———	EWF3FF10B24
V6583	———	———	———	EWF3FF10B24
X6582	V5H0094-C	V5H0094-C	V5H0094-C	V5H0094-C
R6624	82	82	82	82
R6633	680	680	680	680
C6638	10V33	10V33	10V33	10V33
C6610	50V3R3	50V3R3	50V3R3	50V3R3
C6611	10V33	10V33	10V33	10V33
LD6869	VCR0172	VCR0172	VCR0172	VCR0172


FRONT JACK
TO FRONT P6650 VJ53042B00BW
REMOTE JK6850 VJJ0277
D183,184 ONLY
JK6852 VJJ0210
MIC
1 GND
2 ANALOG_REMO_IN
3 MIC_IN
4 12V
5 MIC(H)
6 MIC_GND
7 GND
8 GND
TO MAIN PWB P6501 VJ53079D12G
TO MAIN PWB P6502 VJ53079D00G
TO FRONT JACK PWB P6650 VJ53042B00BW
D183 SW ANAL
D183,184 ONLY
D182,184 ONLY
D183,184 ONLY
D182,184 ONLY
D183 ONLY
D182,184 ONLY
D183,184 ONLY
D182,184 ONLY
D183 ONLY
D182,184 ONLY
D183 ONLY
D182,184 ONLY
D183

6-14. REAR JACK C.B.A. (VEP14427D)



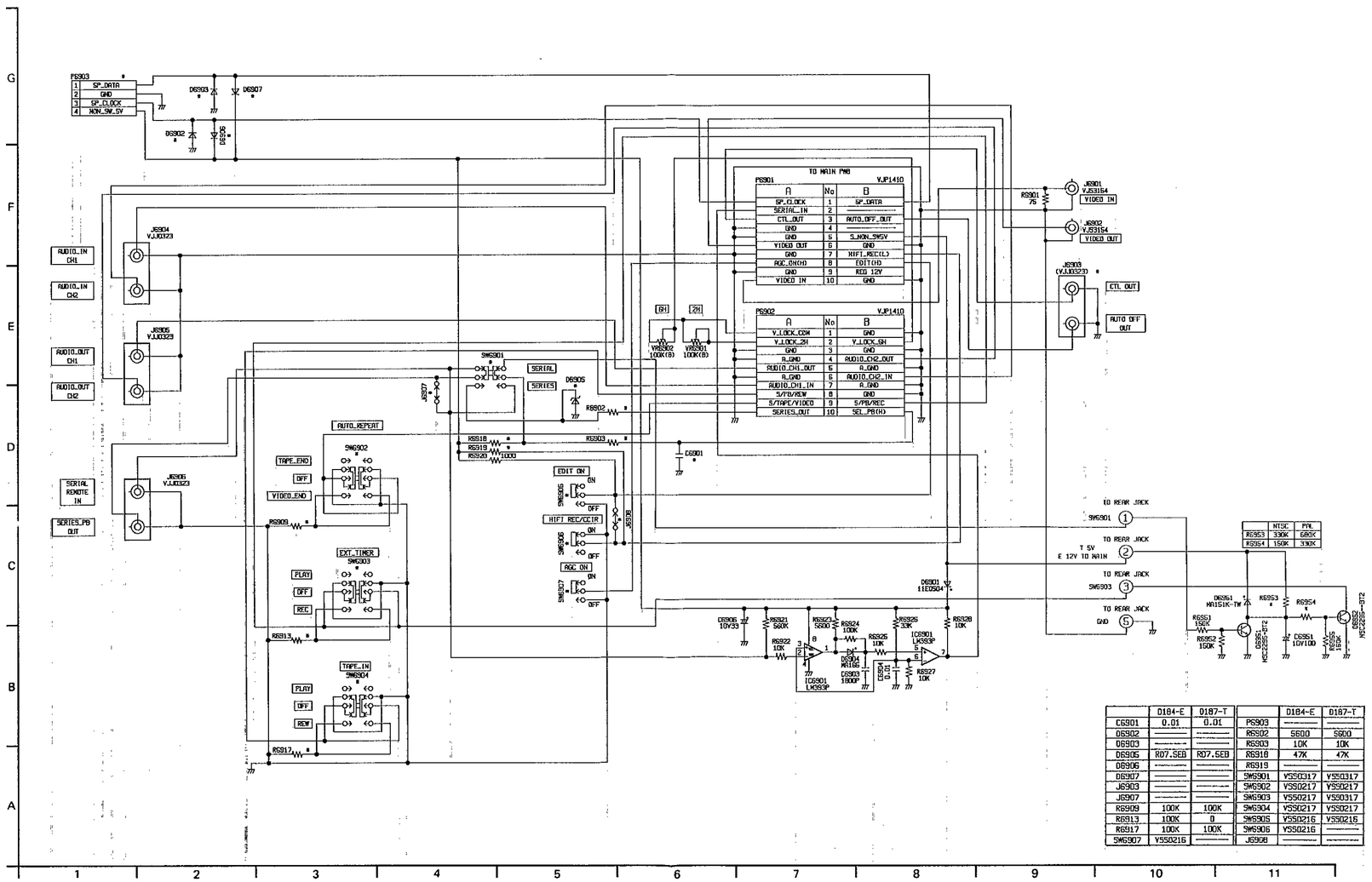
S-VHS PB C.B.A. (VEP03920C)



REAR JACK(VEP00427D)			
FOIL SIDE			
INTEGRATED CIRCUITS		SWITCH	
IC6901	A-4	SW6901	D-5
		SW6902	E-5
		SW6903	E-5
CONNECTOR		SW6904	F-5
P6901	B-5	SW6905	F-2
P6902	C-5	SW6907	E-2
P6903	C-1		
ADJUSTMENT			
VR6901	C-4		
VR6902	B-4		

ADDRESS INFORMATION

6-15. REAR JACK SCHEMATIC DIAGRAM

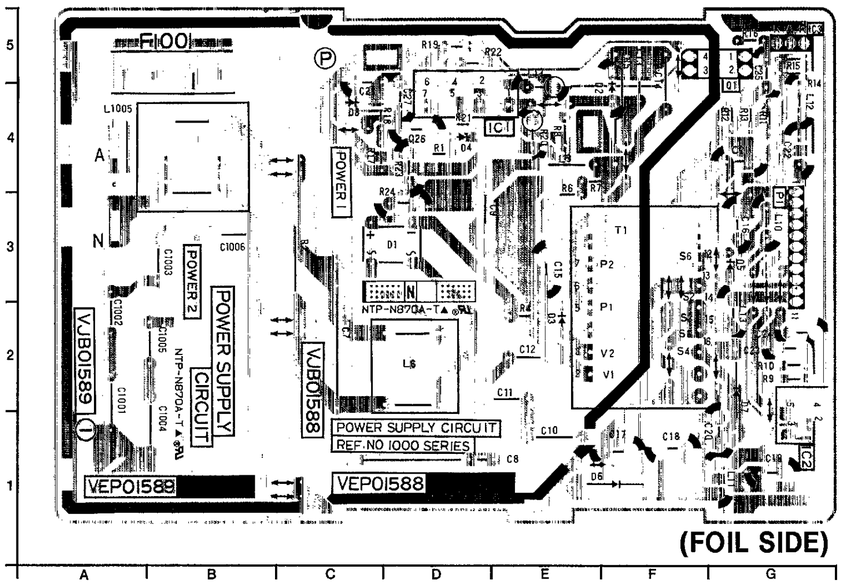


	D184-E	D187-T
C6901	0.01	0.01
D6902	———	———
D6903	———	———
D6905	R07.5EB	R07.5EB
D6906	———	———
D6907	———	———
J6903	———	———
J6907	———	———
R6909	100K	100K
R6913	100K	0
R6917	100K	100K
SW6907	VSS0216	———

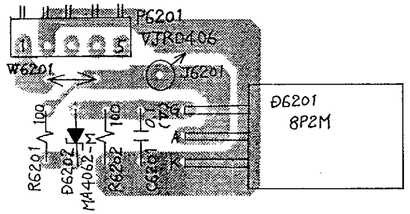
	D184-E	D187-T
P6903	———	———
R6902	560Ω	560Ω
R6903	10K	10K
R6918	47K	47K
R6919	———	———
SW6901	VSS0317	VSS0317
SW6902	VSS0217	VSS0217
SW6903	VSS0217	VSS0317
SW6904	VSS0217	VSS0217
SW6905	VSS0216	VSS0216
SW6906	VSS0216	———
J6908	———	———

	NTSC	PAL
R6953	330K	680K
R6954	150K	390K

6-16. POWER1 C.B.A. (VEP01588B)
POWER2 C.B.A. (VEP01589A)



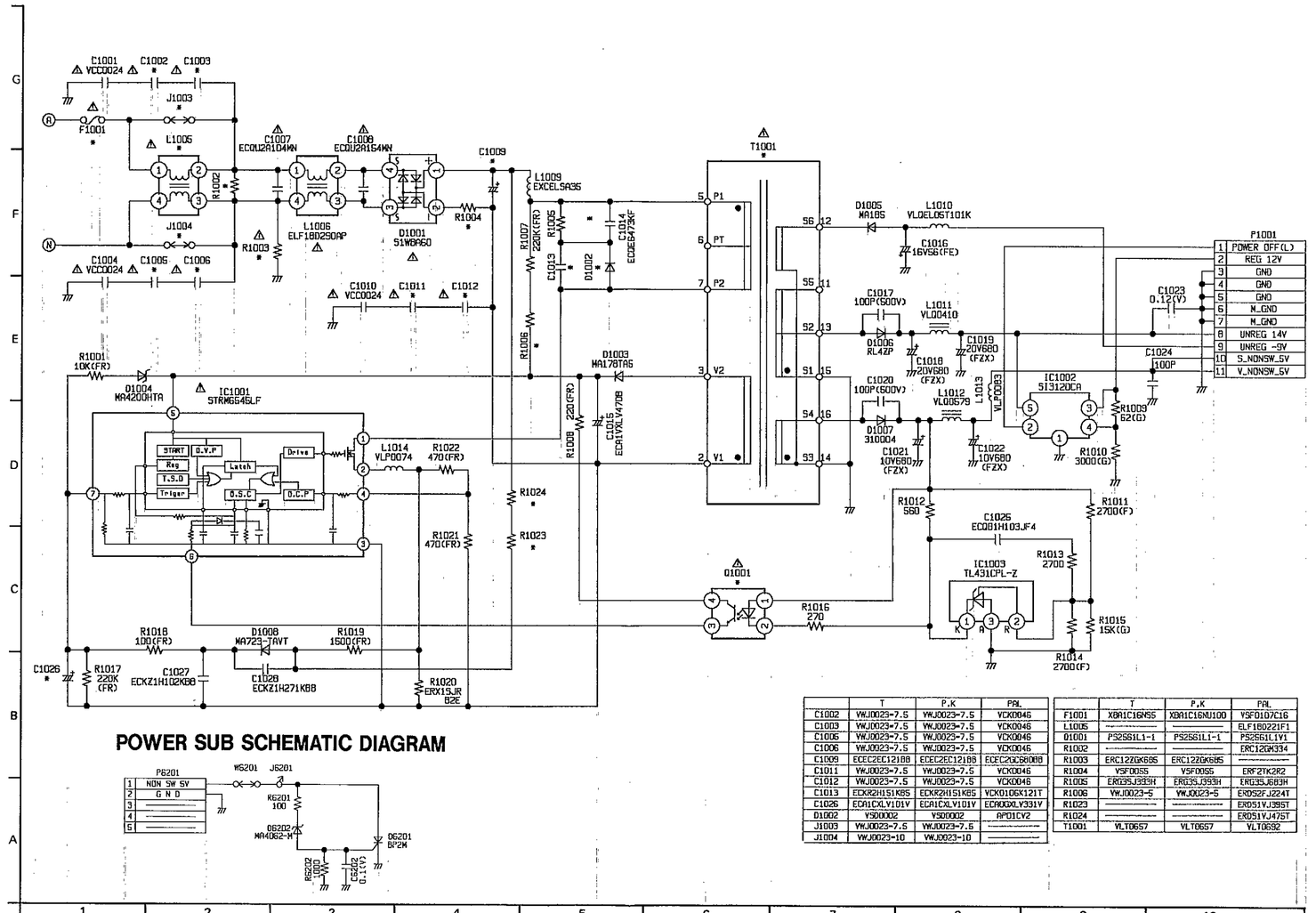
POWER SUB C.B.A. (VEP06974A)



POWER 1(VEP01588B) POWER 2(VEP01589A)	
FOIL SIDE	
TRANSISTOR	
Q1001	G-5
INTEGRATED CIRCUITS	
IC1001	D-4
IC1002	G-1
IC1003	G-5
CONNECTOR	
P1001	G-3

ADDRESS INFORMATION

6-17. POWER SCHEMATIC DIAGRAM

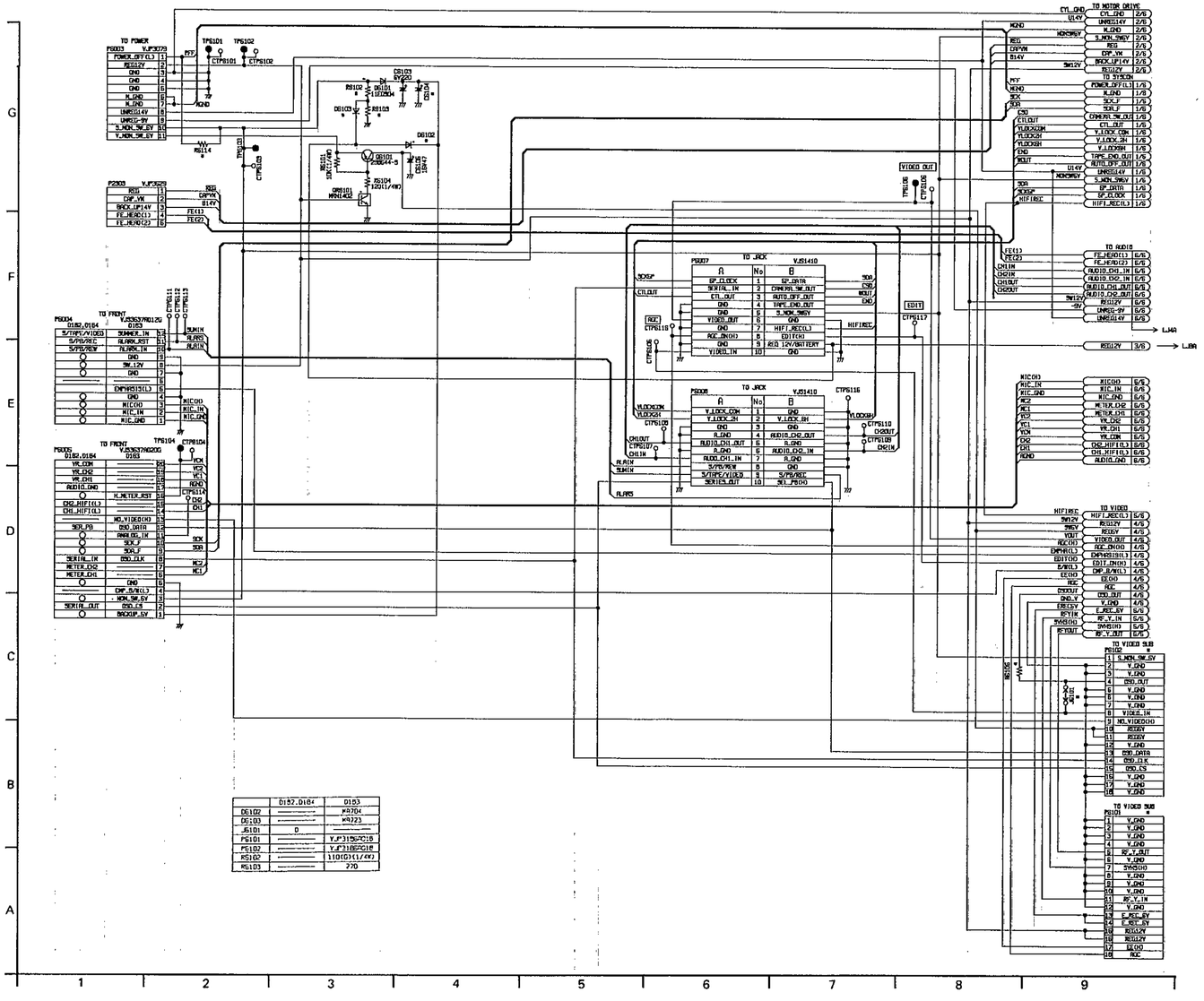


POWER SUB SCHEMATIC DIAGRAM

	T	P,K	PAL
C1002	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1003	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1006	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1006	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1009	ECEC2EC121BB	ECEC2EC121BB	ECEC2GC68008
C1011	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1012	VWJ0023-7.5	VWJ0023-7.5	VCK0046
C1013	ECKR2H151KB5	ECKR2H151KB5	VCK0106X121T
C1026	ECA1CXLV101V	ECA1CXLV101V	ECR0GX0.V331V
D1002	VS00002	VS00002	APD1CV2
J1003	VWJ0023-7.5	VWJ0023-7.5	————
J1004	VWJ0023-10	VWJ0023-10	————

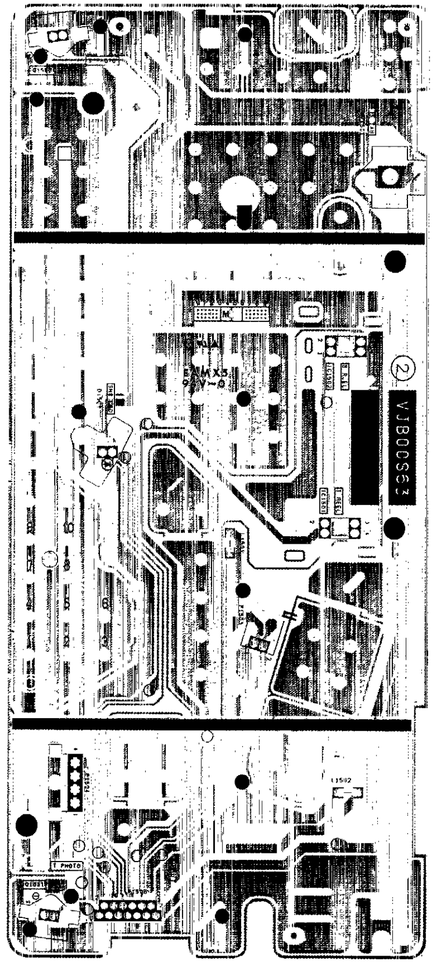
	T	P,K	PAL
F1001	X0A1C16NS5	X0A1C16NU100	VSF0107C16
L1005	————	————	ELF18D221F1
D1001	PS2561L1-1	PS2561L1-1	PS2561LIV1
R1002	————	————	ERC12GK334
R1003	ERC12ZGK68S	ERC12ZGK68S	————
R1004	VSF0055	VSF0055	ERF2TK2R2
R1005	ERG35J393H	ERG35J393H	ERG35J683H
R1006	VWJ0023-5	VWJ0023-5	ERD52FJ224T
R1023	————	————	ERD51VJ395T
R1024	————	————	ERD51VJ475T
T1001	VLT0657	VLT0657	VLT0692

6-18. INTERFACE SCHEMATIC DIAGRAM

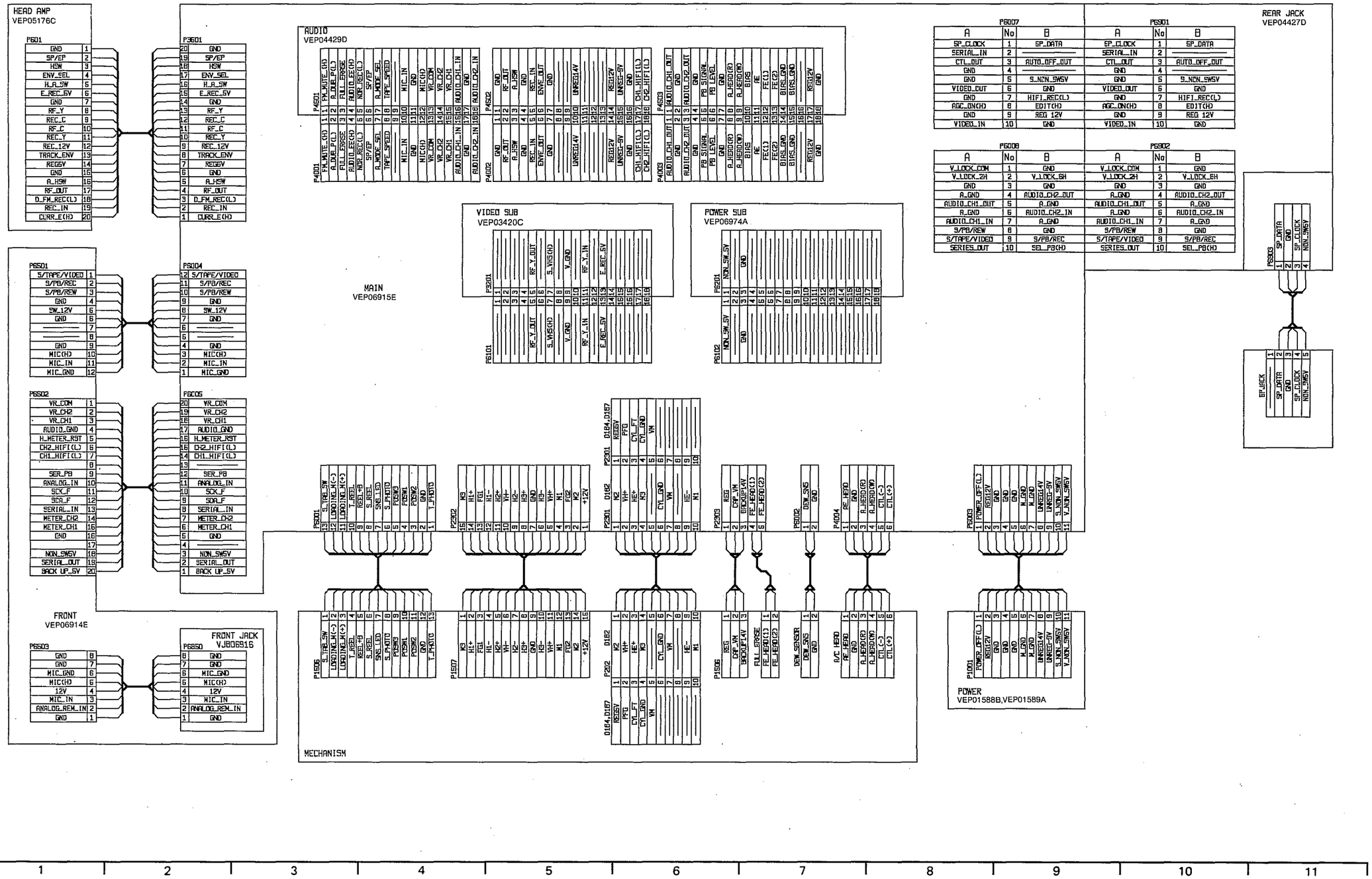


	D152,D164	D153
DS102	———	#3704
DS103	———	#4923
JS101	0	———
PS101	———	Y.P315BAC18
PS102	———	Y.P318BAC18
RS102	———	110(G)(1/4W)
RS103	———	270

6-19. MECHA CONNECTION C.B.A. (VEP00S63)



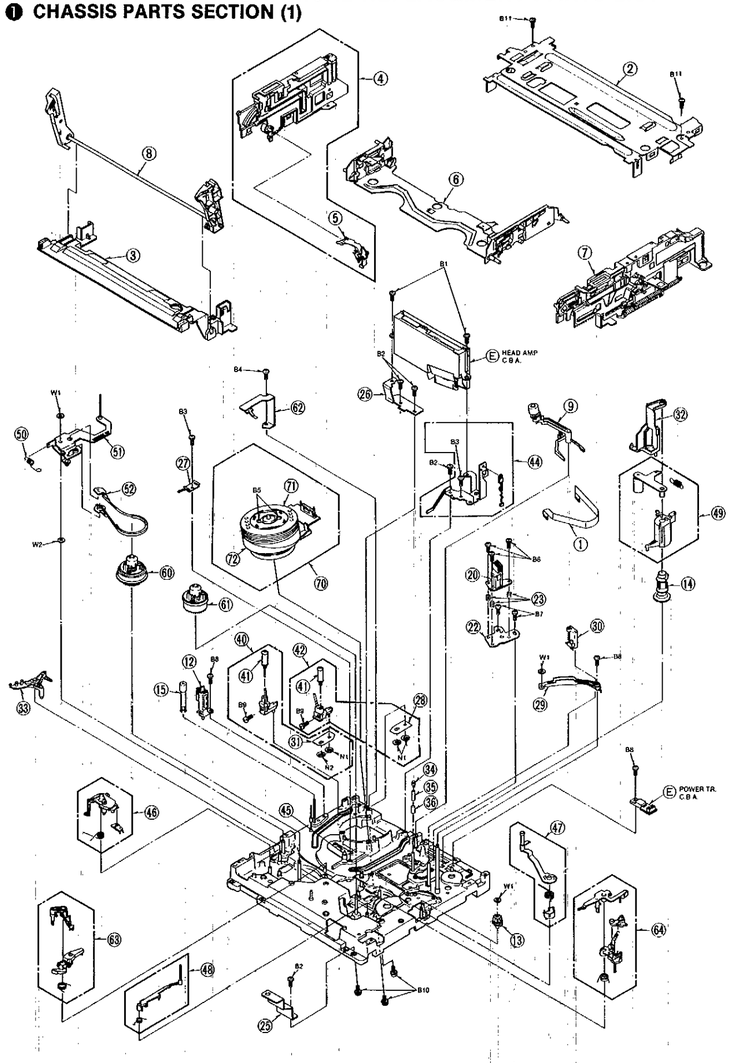
INTER CONNECTION SCHEMATIC DIAGRAM



7-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

❶ CHASSIS PARTS SECTION (1)



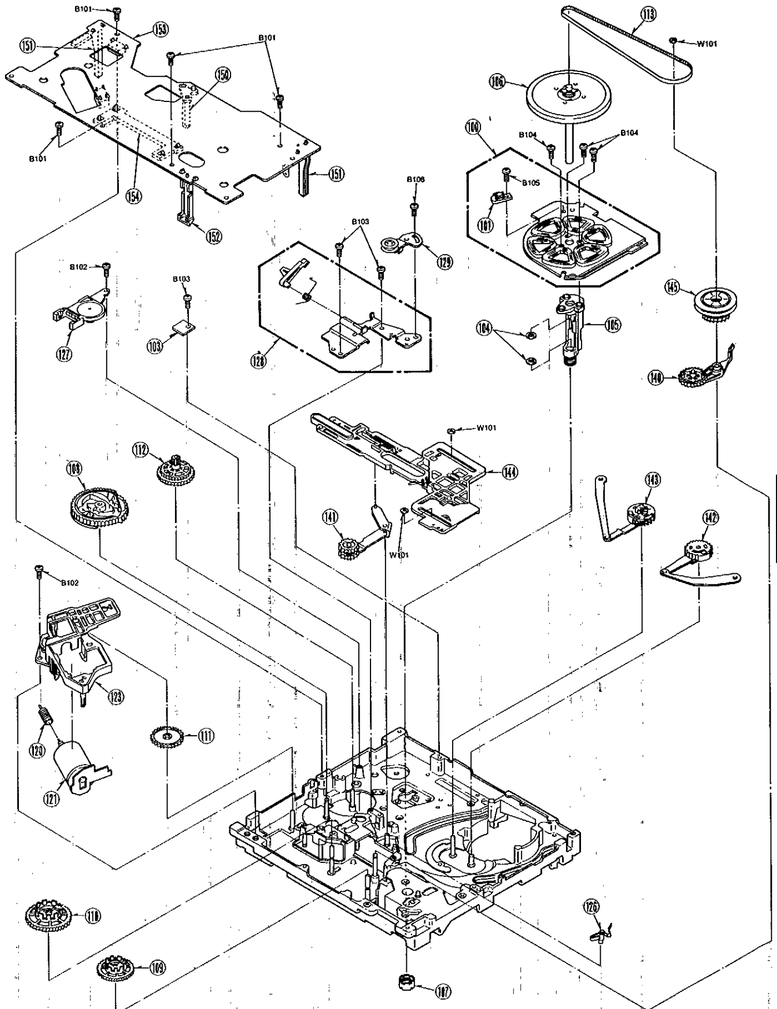
PARTS—1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VMJ0653	FLEXIBLE CABLE (6P)	1	
2(1)	VMA8644	TOP PLATE	1	
3(1)	VMA8787	CASSETTE GUIDE	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1	
5(1)	VXL2250	OPENER LEVER UNIT	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)	VXA4806	SIDE PLATE (R) UNIT	1	
8(1)	VXP1339	MAIN SHAFT UNIT	1	
9(1)	VXL2251	CLEANER ARM UNIT	1	
10(1)	VXP1366	CLEANER ROLLER UNIT	1	
12(1)	VBS0050	FE HEAD	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1	
15(1)	VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)	VEM0005	A/C HEAD (1) UNIT	1	
22(1)	VMA8624	A/C HEAD BASE	1	
23(1)	VMB2515	A/C HEAD SPRING	3	
25(1)	VMA8761	MOUNT ANGLE	1	
26(1)	VMA8763	HEAD AMP MOUNT ANGLE (L)	1	
27(1)	VMC0917	EARTH SPRING	1	
28(1)	VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)	VMD2078	P5 STOPPER BASE	1	
30(1)	VXA4927	P5 POST STOPPER	1	
31(1)	VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)	VMD2101	OPENER PIECE	1	
33(1)	VML2776	TENSION SPRING ARM	1	
34(1)	VMX1544	P4 UPPER LIMITER	1	
35(1)	VMX2175	P4 SLEEVE	1	
36(1)	VMX2176	P4 LOWER LIMITER	1	
40(1)	VXA4982KIT	INCLIND BASE (S) UNIT	1	
41(1)	VXP1415	ROLLER POST (S)	1	
42(1)	VXA4984KIT	INCLIND BASE (T) UNIT	1	
44(1)	VXA4869	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)	VXL2310	REVIEW ARM UNIT	1	
47(1)	VXL2306	P5 ARM UNIT	1	
48(1)	VXL2243	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)	VXL2246	PINCH ARM UNIT	1	
50(1)	VMB2434	TENSION SPRING	1	
51(1)	VXL2309	TENSION ARM (1) UNIT	1	
52(1)	VXZ0310	TENSION BAND UNIT	1	
60(1)	VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)	VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)	VXS0113	EARTH PLATE	1	
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1	
70(1)	VEG1027	CYLINDER UNIT	1	
71(1)	VEH0601	UPPER CYLINDER UNIT	1	
72(1)	VJR0082	RT TERMINAL	1	
B1	VHD0773	SCREW	2	
B2	XTV26+6F	SCREW	4	
B3	XTV26+4F	SCREW	2	
B4	XTN3+6FFZ	SCREW	1	
B5	VHD0425	SCREW	2	
B6	VHD0762	SCREW	3	
B7	XTV26+6FZ	SCREW	2	
B8	XTV26+8F	SCREW	3	
B9	VHD0760	SCREW	2	
B10	VHD0342	SCREW	3	
N1	VHN0192	NUT	3	
N2	VHN0193	NUT	1	
W1	VMX2208	WASHER	3	
W2	XWGY26D5G	WASHER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100(2)	VEK5927	STATOR UNIT	1	
101(2)	VBK0061	FG HEAD	1	
103(2)	VMA8765	ROTOR STOPPER	1	
104(2)	VMK1927	OIL SEAL	2	
105(2)	VXD0140	HOUSING UNIT	1	
106(2)	VXP1471	ROTOR UNIT	1	
107(2)	VXQ0297	THRUST SCREW UNIT	1	
108(2)	VDG0913	MAIN CAM GEAR	1	
109(2)	VDG0861	SUPPLY REEL GEAR	1	
110(2)	VDG0862	TAKE UP REEL GEAR	1	
111(2)	VDG0868	WORM WHEEL GEAR	1	
112(2)	VDG0885	SUB CAM GEAR	1	
113(2)	VDV0235	TIMING BELT	1	
120(2)	VDG0866	WORM GEAR	1	
121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)	VMD1942	MOTOR BRACKET	1	
126(2)	VML2725	IDLER CONTROL LEVER	1	
127(2)	VSS0365	MODE SW	1	
128(2)	VXA4797	SS BRAKE BASE UNIT	1	
129(2)	VXA4799	TENSION ROLLER UNIT	1	
140(2)	VXL2229	IDLER ARM UNIT	1	
141(2)	VXL2230	DIRECT LEVER UNIT	1	
142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)	VXL2307	MAIN LEVER UNIT	1	
145(2)	VXP1409	CENTRE CLUTCH	1	
150(2)	VMD1926	LED HOLDER	1	
151(2)	VMD1927	PHOTO TRANSISTOR HOLDER	2	
152(2)	VES0695	SAFETY TAB SW	1	
153(2)	VJB00S63	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON THE C.B.A.IS LISTED ON ELECTRICAL PARTS LIST.
154(2)	VMD2029	REEL SHAFT GUIDE	1	
B101	VHD0772	SCREW	4	
B102	XTV26+8F	SCREW	2	
B103	XTV26+6F	SCREW	3	
B104	VHD0753	SCREW	3	
B105	VHD0754	SCREW	1	
B106	XSB26+4FZ	SCREW	1	
W101	VMX2208	WASHER	3	

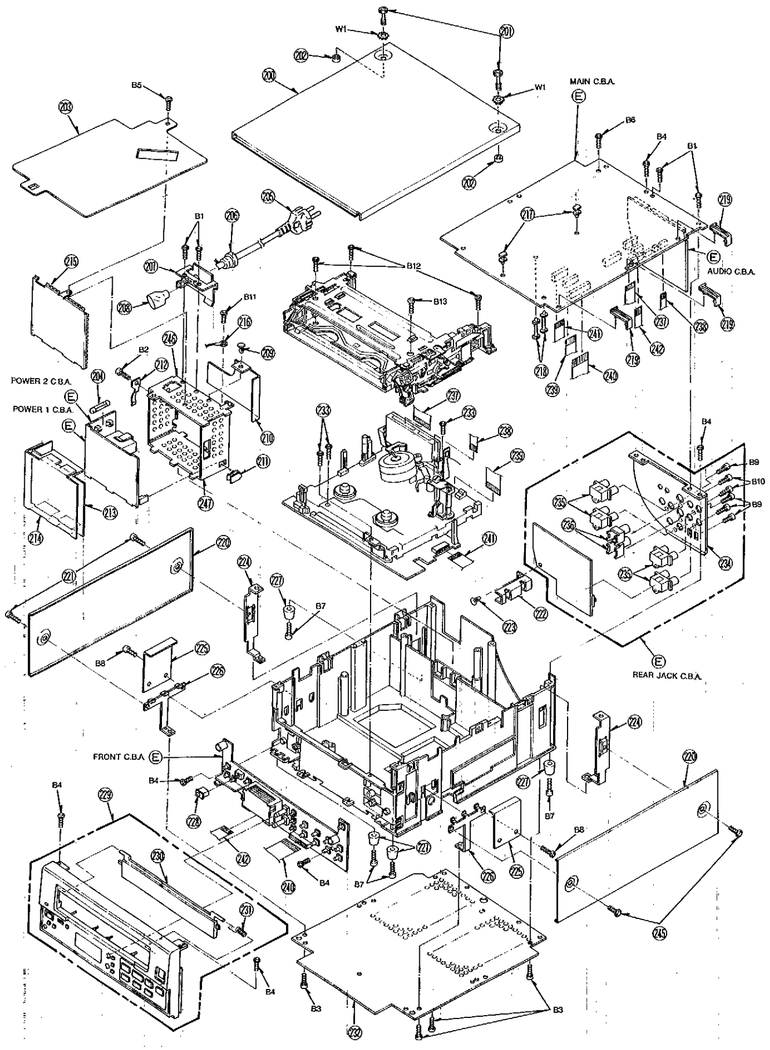
PARTS—2

❷ CHASSIS PARTS SECTION (2)



PARTS—3

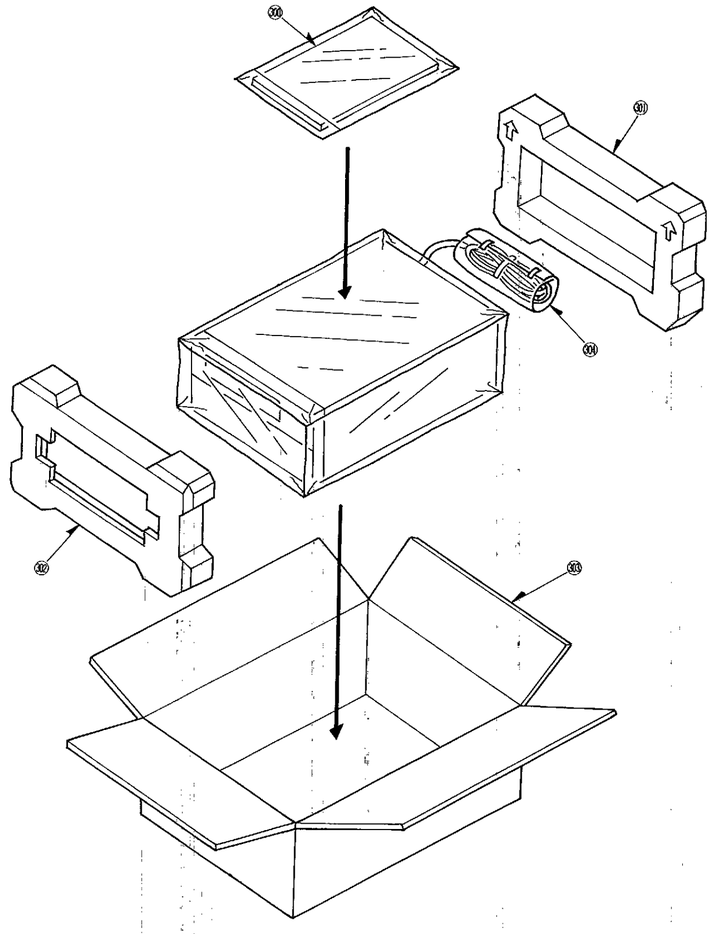
❸ CASING PARTS SECTION



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200(3)	VGM1045	TOP PANEL	1	
201(3)	VHD0222	SCREW	2	
202(3)	VMX2248	SPACER	2	
203(3)	VSC4044	SHIELD SEAT (B)	1	
204(3)	XBA2C16TH15	FUSE 1.6A/125V	1	<!>
205(3)	VJA0675	AC CORD	1	FOR AG-5260E<!>
205(3)	VJA0739	AC CORD	1	FOR AG-5260B<!>
206(3)	VMX0936	AC CORD BUSHING	1	<!>
207(3)	VMP4260	POWER PLATE	1	
208(3)	VMX0237	AC CORD COVER	1	<!>
209(3)	VJF0649	RIVET	1	
210(3)	VMZ2292	BARRIER	1	
211(3)	VMC0357	TR HOLDER SPRING	1	
212(3)	VMC0525	EARTH SPRING	1	
213(3)	VMZ2243	BARRIER	1	
214(3)	VSC3999	BARRIER	1	
215(3)	VSC3959	SHIELD PLATE	1	
216(3)	VJH12	EARTH TERMINAL	1	
217(3)	VKC0295	SPACER	2	
218(3)	VKC0422	SPACER	2	
219(3)	VKC0421	HINGE	3	
220(3)	VGM1046	SIDE PANEL (R)	1	
221(3)	VHD0305	SCREW	4	
222(3)	VJF1094	P.C.BOARD HOLDER	1	
223(3)	VJF0649	RIVET	1	
224(3)	VMP4218	EARTH ANGLE (B)	2	
225(3)	VSC4046	SHIELD SEAT (C)	2	
226(3)	VMP4217	EARTH ANGLE (A)	2	
227(3)	VKA0133	RUBBER FOOT	4	
228(3)	VGU5582	SLIDE SW SHEET	1	
229(3)	VYP5456	FRONT PANEL UNIT	1	
230(3)	VKF2127	BLINDER PANEL	1	
231(3)	VMB2521	BLINDER PANEL SPRING	1	
232(3)	VKU0395	BOTTOM PLATE	1	
233(3)	VHD0168	SCREW	3	
234(3)	VJH0718	REAR JACK PANEL	1	
235(3)	VJJ0323	RCA PIN JACK	4	
236(3)	VJS3154	BNC CONNECTOR	2	
237(3)	VWJ20AW470B0	FLEXIBLE CABLE	1	
238(3)	VWJ0785	FLEXIBLE CABLE	1	
239(3)	VWJ15AW510B0	FLEXIBLE CABLE	1	
240(3)	VWJ20AW385B0	FLEXIBLE CABLE	1	
241(3)	VWJ13AW200B0	FLEXIBLE CABLE	1	
242(3)	VWJ12AW610B0	FLEXIBLE CABLE	1	
243(3)	VSC3957	SHIELD CASE	1	
244(3)	VSC3958	SHIELD CASE	1	
245(3)	VGM1070	SIDE PANEL (L)	1	
B1	XTV3+6F	SCREW	4	
B2	XTV26+4F	SCREW	1	
B3	XTB3+10F	SCREW	4	
B4	XTV3+10GR	SCREW	6	
B5	XTV3+6FR	SCREW	1	
B6	XYE3+EF8FR	SCREW	1	
B7	XTV3+14J	SCREW	4	
B8	XTV3+6J	SCREW	2	
B9	XTV3+10GFZ	SCREW	4	
B10	XTV3+8FFZ	SCREW	2	
B11	XYE4+EF6	SCREW	1	
B12	XTV26+8FR	SCREW	3	
B13	XTV26+10F	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
300(4)	VQT5649	OPERATING INSTRUCTIONS	1	FOR AG-5260E
300(4)	VQT5650	OPERATING INSTRUCTIONS	1	FOR AG-5260B
301(4)	VPN3798	CUSHION (R)	1	
302(4)	VPN3173	CUSHION (F)	1	
303(4)	VPG7418	PACKING CASE	1	FOR AG-5260E
303(4)	VPG7419	PACKING CASE	1	FOR AG-5260B
304(4)	VPF0136	CORD PROTECTION SEAT	1	

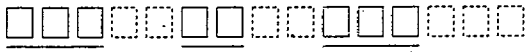
❹ PACKING PARTS SECTION



7-2. ELECTRICAL REPLACEMENT PARTS LIST

1. ● Be sure to make your orders of replacement parts according to this list.
   ● "<R>" in Remark column indicates recommended parts.
   ● "<M>" in Remark column indicates needed in the periodical maintenance..
2. IMPORTANT SAFETY NOTICE
   Components indentified by "<!>" have special characteristics important for safety.
   When replacing any of these components, use only the original ones.
   Meaning of symbol "<!>" on this parts list is exactly the same as synbol⚠on Schematic and Circuit Board Diagrams.
3. Unless otherwise specified;
   All resistors are in (Ω), K=1,000Ω, M=1,000kΩ.
   All capacitors are in (F), U=10^{-6} F, P=10^{-12} F.
4. ITEM NUMBERS WITH CAPITAL LETER E
   Item numbers woth capital leter E (Example: E1, E2, ...) in Ref. no. column mean that the parts are listed with the E item numbers in the exploded views.
5. The main assembled parts are shown below C.B.A. marked with "■".
6. When ordering parts, use parts No. only form Part No. column.
7. Printed circuit board assembly with mark (RTL) is no longer available after discontinuation of the product.
8. Explanation of part number

《 CAPACITOR 》



Type　　Rated Volt.　　Capacitance Value

Type

Type	Delectric
ECA ECE ECS ECO	ELECTROLYTIC CAPACITOR
ECC ECF ECK ECU	CERAMIC CAPACITOR
ECH ECQ ECW	PLASTIC FILM CAPACITOR

Rated Volt.

Code	0G	0J	1A	1C	1D	1E	1V	1H	1J	1K
W.V. (V)	4	6.3	10	16	20	25	35	50	63	80

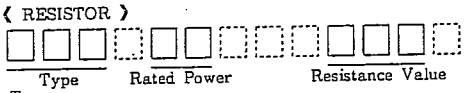
Code	2A	2C	2P	2D	2E	2F	2V	2G	2W	2H
W.V. (V)	100	160	180	200	250	315	350	400	450	500

Capacitance Value

The 1st 2 figures are actual values and the 3rd denotes the number of zero.
"R" denotes the decimal point and all figures are the actual number with "R".
※ Unit　Electrolytic capacitor ----- μF
Ceramic capacitor ----- pF
Plastic film capacitor ----- pF

Example : ECEA1HU221 → ELECTCTROYTIC CAPACITOR 50V 220μF

《 RESISTOR 》



Type　　Rated Power　　Resistance Value

Type

Type	Delectric
ERD	CARBON RESISTOR
ERF FRW	WIRE WOUND RESISTOR
ERQ ERU	FISE RESISTOR
ERC	SOLID RESISTOR
ERX ERG ERO ERN	METAL RESISTOR
ERJ	CHIP RESISTOR
ERS	THERMAL SENSTIVE RESISTOR

Rated Power

Code	1	2	3	3G	5	8	10	12	14	25
R.Power (w)	1	2	3	1/16	1/10	1/8	1/8	1/2	1/4	1/4

Code	S1	S2								
R.Power (w)	1/2	1/4								

Resistance Value

The 1st 2 figures are actual values and the 3rd denotes the number of zero.
"R" denotes the decimal point and all figures are the actual number with "R".

Example : ERDS2TJ471 → CARBON RESISTOR 1/4W 470Ω

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01588B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		POWER (1)		
	VEP01589A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		POWER (2)		
	VEP04427D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		REAR JACK		
	VEP00U79B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		REAR JACK SUB		FOR VEP04427D
	VEP04429D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		AUDIO		
	VEP05176C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		HEAD AMP		
	VEP06914E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		FRONT		
	VEP06916C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		FRONT JACK		FOR VEP06914E
	VEP06915E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		MAIN		
	VEP03920C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SQPB		FOR VEP06915E
	VEP06974A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		POWER DETECT		FOR VEP06915E
	VEP00S63C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		MECHANISM CONNECTION		

Ref.No.	Part No.	Pcs	
********	[VEP01588B]		
	POWER (1)		
C1007	ECQU2A104MN	1	!
C1008	ECQU2A154MN	1	!
C1009	ECEC2GC680BB	1	
C1010	VCC0024	1	!
C1011,12	VCK0046	2	!
C1013	VCK0106K121	1	
C1014	ECQE6473KF	1	
C1015	ECA1VXLV470	1	
C1016	ECEA1CFE560	1	
C1017	ECKD2H101KB	1	
C1018,19	ECEA1DFZ681	2	
C1020	ECKD2H101KB	1	
C1021,22	ECEA1AFZ681	2	
C1023	ECQV1H124JZ	1	
C1024	ECKF1H101KB	1	
C1025	ECQB1H103JF	1	
C1026	ECA0GXLV331	1	
C1027	ECKF1H102KB	1	
C1028	ECKF1H271KB	1	
D1001	S1WBA60S	1	!
D1002	AP01C	1	
D1003	MA178	1	
D1004	MA4200-H	1	
D1005	MA185	1	
D1006	RL4Z	1	
D1007	31DQ04	1	
D1008	MA723VT	1	
IC1001	STRM6545	1	!
IC1002	SI3120CA	1	
IC1003	TL431CLP	1	
L1006	ELF18D290A	1	!
L1009	EXCELSA35	1	
L1010	VLQEL05S101J	1	
L1011	VLQ0410	1	
L1012	VLQ0579	1	
L1013	VLP0083	1	
L1014	VLP0074	1	
P1001	VJP3091	1	
Q1001	PS2561L1V1	1	!
R1001	ERDS2FJ103	1	
R1002	ERC12GM334	1	!
R1004	ERF2TK2R2	1	
R1005	ERG3SJ683	1	
R1006,07	ERDS2FJ224	2	
R1008	ERDS2FJ221	1	
R1009	EROS2CKG62R0	1	
R1010	EROS2CKG3001	1	
R1011	EROS2TKF2701	1	
R1012	ERDS2TJ561	1	
R1013	ERDS2TJ272	1	
R1014	EROS2TKF2701	1	
R1015	EROS2CKG1502	1	
R1016	ERDS2TJ271	1	
R1017	ERDS2FJ224	1	
R1018	ERDS2FJ101	1	
R1019	ERDS2FJ152	1	
R1020	ERX1SJR82	1	
R1021,22	ERDS2FJ471	2	
R1023	ERDS1TJ395	1	
R1024	ERDS1TJ475	1	
T1001	VLT0692	1	

Ref.No.	Part No.	Pcs	
********	[VEP01589A]		
	POWER (2)		
C1001	VCC0024	1	!
C1002,03	VCK0046	2	!
C1004	VCC0024	1	!
C1005,06	VCK0046	2	!
L1005	ELF18D221F	1	!
********	[VEP04427D]		
	REAR JACK		
	[VEP00U79B]		
	REAR JACK SUB		
C6901	ECQB1H103JF	1	
C6903	ECQB1H182JF	1	
C6904	ECQB1H103JF	1	
C6906	ECEA1AKA330	1	
C6951	ECEA1AKS101I	1	
D6901	11EQS04	1	
D6904	MA165VT	1	
D6905	RD7.5EB	1	
D6951	MA151K	1	
IC6901	LM393P	1	
J6901,02	VJS3154	2	
J6904-06	VJJ0323	3	
P6901,02	VJP1410	2	
Q6951,52	MSC2295-B	2	
R6901	ERDS2TJ750	1	
R6902	ERDS2TJ562	1	
R6903	ERDS2TJ103	1	
R6909	ERDS2TJ104	1	
R6913	ERDS2TJ104	1	
R6917	ERDS2TJ104	1	
R6918	ERDS2TJ473	1	
R6920	ERDS2TJ102	1	
R6921	ERDS2TJ564	1	
R6922	ERDS2TJ103	1	
R6923	ERDS2TJ562	1	
R6924	ERDS2TJ104	1	
R6925	ERDS2TJ103	1	
R6926	ERDS2TJ333	1	
R6927,28	ERDS2TJ103	2	
R6951,52	ERJ6GEYJ154	2	
R6953	ERJ6GEYJ684	1	
R6954	ERJ6GEYJ334	1	
R6955	ERJ6GEYJ154	1	
SW6901	VSS0317	1	
SW6902-04	VSS0217	3	
SW6905-07	VSS0216	3	
VR6901,02	EVND4AA00B15	2	
********	[VEP04429D]		
	AUDIO		
C4501	ECEA1CKA100	1	
C4502,03	ECEA1HKA010	2	
C4504	ECEA1CKA100	1	
C4505	ECEA1CKA101	1	
C4509	ECEA1CPZ470	1	
C4511	ECUM1H103ZFN	1	
C4512	ECEA1CPZ470	1	

Ref.No.	Part No.	Pcs
C4513,14	ECEA1APZ101	2
C4515,16	ECUM1H104ZFN	2
C4517,18	ECEA1CPZ330	2
C4520	ECUM1H104ZFN	1
C4521,22	ECEA1HPZ3R3	2
C4523	ECEA1APZ101	1
C4524	ECEA1EBZ4R7	1
C4525	ECQB1H223JF	1
C4526	ECEA1APZ470	1
C4527	ECQB1H103JF	1
C4528	ECQB1H332JF	1
C4529	ECUM1H561JCN	1
C4530	ECEA1HPZ4R7	1
C4531	ECUM1H561JCN	1
C4532	ECUM1H681JCN	1
C4533	ECUM1H104ZFN	1
C4534	ECEA1APZ101	1
C4535	ECUM1E473KBN	1
C4536	ECUM1C224ZFN	1
C4537	ECUM1H103ZFN	1
C4538	ECUM1H471JCN	1
C4539	ECEA1HUR47	1
C4540	ECUM1H102JCN	1
C4541	ECUM1E473KBN	1
C4542	ECEA1APZ101	1
C4543	ECUM1H104ZFN	1
C4544	ECEA1HPZ4R7	1
C4545	ECUM1H681JCN	1
C4546,47	ECUM1H561JCN	2
C4548	ECEA1EBZ4R7	1
C4549	ECQB1H223JF	1
C4550	ECEA1APZ470	1
C4551	ECQB1H103JF	1
C4552	ECQB1H332JF	1
C4553,54	ECEA1CPZ100	2
C4555	ECEA1APZ470	1
C4556	ECEA1CPZ470	1
C4557	ECQB1H822JF	1
C4558	ECEA10M22	1
C4559	ECEA1CBZ100	1
C4560,61	ECUM1H102JCN	2
C4562	ECUM1C105ZFN	1
C4563	ECUV1H182JCN	1
C4564	ECQB1H333JF	1
C4565	ECUM1C105ZFN	1
C4566	ECQB1H103JF	1
C4567	ECQB1H562JF	1
C4568	ECQB1H153JF	1
C4569,70	ECEA1CKA100	2
C4571	ECEA1HKN010	1
C4572	ECEA1CKA220	1
C4573	ECQB1H102JF	1
C4574	ECQB1H103JF	1
C4575	ECCD2H121K	1
C4576	ECQB1H222JF	1
C4577	ECEA1CKA100	1
C4578	ECQB1H472JF	1
C4579	ECQB1H103JF	1
C4580	ECQB1H333JF	1
D4501-04	MA151K	4
FL4501	VLF0947	1
IC4501	XLH7773KS	1
IC4502	BA7755AF	1
IC4503	AN1358S	1
J4502-04	ERJ6GEY0R00	3
J4506	ERJ6GEY0R00	1
L4501	VLQEL05S101J	1
L4503,04	VLQEL05S101J	2
L4505	VLQEL07F153J	1
L4506	VLQEL05T102J	1

Ref.No.	Part No.	Pcs
L4507	VLQEL05S101J	1
P4501-03	VJS3186B018	3
Q4501	2SB710A-R	1
Q4503,04	2SD1328-R	2
Q4505	2SB561	1
Q4506	2SD655	1
Q4507	2SD1328-R	1
Q4508	2SB710	1
Q4509	2SD639-R	1
Q4510	2SB710	1
Q4511	2SD639-R	1
QR4501	MRN2404	1
QR4502-07	MRN1404	6
QR4508	MRN2404	1
R4501	ERJ6GEYJ104	1
R4502	ERJ6GEYJ103	1
R4503	ERJ6GEYJ563	1
R4504	ERJ6GEYJ104	1
R4505	ERJ6GEYJ563	1
R4506	ERJ6GEYG363	1
R4507	ERJ6GEYJ183	1
R4512	ERJ6GEYG363	1
R4513	ERJ6GEYJ183	1
R4514	ERJ6GEYJ152	1
R4515,16	ERJ6GEYJ103	2
R4517	ERJ6GEYJ472	1
R4518	ERJ6GEYJ104	1
R4520,21	ERJ6GEY0R00	2
R4522,23	ERJ6GEYJ222	2
R4524-26	ERJ6GEYJ473	3
R4527	ERJ6GEYJ104	1
R4528	VRE0034E153	1
R4529	ERJ6GEYJ472	1
R4530	ERJ6GEYG224	1
R4531	ERJ6GEYG303	1
R4532	ERJ6GEYJ222	1
R4533	ERJ6GEYG103	1
R4534	VRE0034E36C	1
R4535,36	ERJ6GEYJ152	2
R4537	ERJ6GEYG562	1
R4538	VRE0034E153	1
R4539	ERJ6GEYJ334	1
R4540	VRE0034E333	1
R4541	ERJ6GEYG182	1
R4542	ERJ6GEYG303	1
R4543	VRE0034E113	1
R4544	ERJ6GEYJ224	1
R4545	ERJ6GEYJ472	1
R4546	ERJ6GEYJ473	1
R4547	ERJ6GEY0R00	1
R4548	ERJ6GEYJ333	1
R4549	ERJ6GEYJ133	1
R4550	ERJ6GEYJ562	1
R4551	ERJ6GEYJ822	1
R4552	ERJ6GEYJ394	1
R4553	ERJ6GEYJ331	1
R4554	ERJ6GEYJ621	1
R4555	ERJ6GEYJ473	1
R4556	ERJ6GEYJ123	1
R4557	ERJ6GEYG203	1
R4558	ERJ6GEYJ392	1
R4559	ERJ6GEYG183	1
R4560	ERJ6GEYG470	1
R4561	ERJ6GEYJ331	1
R4562	ERJ6GEYG101	1
R4563	ERJ6GEYJ471	1
R4564	ERJ6GEYJ562	1
R4565,66	ERJ6GEYJ223	2
R4567	ERJ6GEYJ103	1
R4568	ERJ6GEYJ272	1
R4569	ERJ6GEYJ562	1

Ref.No.	Part No.	Pcs
R4570	ERJ6GEYJ153	1
R4571	ERJ6GEYJ272	1
R4572	ERJ6GEYJ562	1
R4573	ERJ6GEYJ153	1
R4574	ERJ6GEYJ102	1
T4501	EIQ7QF013Q	1
T4502	EIQ7QF012Q	1
VR4501	EVMF6SA00B53	1
VR4502	EVMF6SA00B24	1
VR4503	EVMF6SA00BS3	1
VR4504	EVMF6SA00B24	1
VR4505	EVMF6SA00BY3	1
********	[VEP05176C]	
	HEAD AMP	
C503	ECUM1C105ZFN	1
C505	ECUM1H103ZFN	1
C506	ECUM1H103ZFN	1
C507	ECUM1H103ZFN	1
C508	ECUM1H103ZFN	1
C509	ECUM1H332KBN	1
C510	ECUM1H104ZFN	1
C511	ECUM1H104ZFN	1
C512	ECUM1H102KBN	1
C513	ECUM1H104ZFN	1
C514	ECUM1H103ZFN	1
C515	ECUM1H104ZFN	1
C516	ECUM1H104ZFN	1
C517	ECUM1H103ZFN	1
C518	ECUM1H103ZFN	1
C519	ECUM1H104ZFN	1
C520	ECUM1H104ZFN	1
C521	ECUM1H103ZFN	1
C523	ECUM1H103ZFN	1
C524	ECUM1H103ZFN	1
C525	ECUM1H103ZFN	1
C526	VCEA0JAC221	1
C527	ECUM1H102KBN	1
C540	ECEA1CK470	1
C551	ECUM1H102KBN	1
C552	ECUM1H103ZFN	1
C553	ECUM1H103ZFN	1
C554	ECUM1H103ZFN	1
C555	ECEA0JPK221	1
C556	ECUM1H103ZFN	1
C557	ECUM1H103ZFN	1
C559	ECUM1C105ZFN	1
C560	ECUM1H471JCN	1
C561	ECUM1H471JCN	1
C562	ECUM1H101JCN	1
C563	ECUM1H101JCN	1
C564	ECUM1C105ZFN	1
C565	ECUM1H101JCN	1
C566	ECUM1H104ZFN	1
C567	ECUM1H102KBN	1
C569	ECUM1C105ZFN	1
IC501	AN3336SB	1
IC551	BA7743FS	1
K501	ERJ6GMZ0R00	1
K502	ERJ6GMZ0R00	1
K503	ERJ6GMZ0R00	1
K504	ERJ6GMZ0R00	1
K505	ERJ6GMZ0R00	1
K506	ERJ6GMZ0R00	1
K551	ERJ6GMZ0R00	1
L501	VLQ0540K330	1
L502	VLQ0540K330	1

Ref.No.	Part No.	Pcs
L551	VLQ0540K330	1
L552	VLQ0540K330	1
P501	VJS3537B020G	1
P502	VJS2603	1
QR501	MRN2404	1
R501	ERJ6GMYJ101	1
R502	ERJ6GEYJ152	1
R503	ERJ6GMYG752	1
R504	ERJ6GMYJ333	1
R505	ERJ6GMYJ182	1
R506	ERJ6GMYJ392	1
R507	ERJ6GMYJ391	1
R508	ERJ6GMYJ331	1
R509-12	ERJ6GMYJ101	4
R513	ERJ6GMYJ103	1
R514	ERJ6GMYJ274	1
R517	ERJ6GMYJ100	1
R526	ERJ6GMYG133	1
R551	ERJ6GMYJ473	1
R552	ERJ6GMYJ391	1
R553	ERJ6GMYJ273	1
R554	ERJ6GMYJ243	1
R556	ERJ6GMYJ333	1
R557	ERJ6GMYJ103	1
R558	ERJ6GMYJ332	1
R559-60	ERJ6GMYJ152	2
R561	ERJ6GMYJ332	1
R562	ERJ6GMYJ102	1
R563	VRE0034E100	1
R564	ERJ6GMYJ224	1
R565	ERJ6GMYJ473	1
R566	ERJ6GMYJ273	1
R567	ERJ6GMYJ153	1
R568	ERJ6GMYJ271	1
R569	ERJ6GEYJ102	1
R570	ERJ6GMYJ102	1
********	[VEP06914E]	
	FRONT	
	[VEP06916C]	0
	FRONT JACK	
C6502	ECEA1CKA330	1
C6503	ECEA1HKAR22	1
C6504-06	ECUM1H101JCN	3
C6507	ECUM1H220JCN	1
C6508	ECUM1H390JCN	1
C6509	ECEA1CKA330	1
C6510	ECEA1HKA3R3	1
C6511	ECEA1CKA330	1
C6512,13	ECUM1H103ZFN	2
C6514	ECUM1H104ZFN	1
C6522	ECEA0JKA221	1
C6524	ECUM1H104ZFN	1
C6525	ECEA1CKA330	1
C6526-28	ECUM1H101JCN	3
C6529	ECUM1H103ZFN	1
C6536	ECEA1CKA330	1
C6851	ECQB1H123JF	1
CT6501	ECRHA030E41	1
D6501-08	MA151WA	8
D6510	MA151A	1
D6520-24	MA153	5
D6525	11EQS04	1
D6526	MA151A	1
DP6501	EDD063ZS5A4P	1

Ref.No.	Part No.	Pcs
IC6501	UPD75328G692	1
IC6503	VCR0172	1
IC6505	MN1382-H	1
IC6510	UPD6253GS	1
IC6511	MN1382-R	1
JK6850	VJJ0277	1
JK6852	VJJ0210	1
L6501	VLQEL05K121J	1
LD6501	LN043572P	1
LD6502	LN81RCPHL	1
LD6504	LN81RCPHL	1
LD6590	LN81RCPHL	1
P6501	VJS3537A012G	1
P6502	VJS3537A020G	1
P6503	VJP3042A008W	1
P6850	VJS3042B008W	1
QR6501	MRN2404	1
QR6503,04	MRN2402	2
R6501,02	ERJ6GEYJ222	2
R6509-12	ERJ6GEYJ681	4
R6513	ERJ6GEYJ221	1
R6515	ERJ6GEYJ221	1
R6518	ERJ6GEYJ473	1
R6519	VRE0034E153	1
R6520	VRE0034E392	1
R6521	VRE0034E683	1
R6524	ERJ6GEYJ820	1
R6525	ERJ6GEYJ473	1
R6527	ERJ6GEYJ331	1
R6528-30	ERJ6GEYJ104	3
R6533	ERJ6GEYJ681	1
R6534,35	ERJ6GEYJ473	2
R6537-39	ERJ6GEYJ473	3
R6540	ERJ6GEYJ103	1
R6550	ERJ6GEYJ471	1
R6551	ERJ6GEYJ224	1
R6552-54	ERJ6GEYJ103	3
R6555-57	ERJ6GEYJ104	3
R6558	ERJ6GEYJ332	1
R6559	ERJ6GEYJ473	1
R6560,61	ERJ6GEY0R00	2
R6562	ERJ6GEYJ473	1
R6566	ERJ6GEY0R00	1
R6567	ERJ6GEYJ473	1
R6572,73	ERJ6GEY0R00	2
R6576-78	ERJ6GEY0R00	3
R6579-82	ERJ6GEYJ473	4
R6586,87	ERJ6GEYJ473	2
R6589	ERJ6GEYJ392	1
R6590	ERJ6GEYJ471	1
R6591	ERJ6GEYJ221	1
R6593	ECUM1H390JCN	1
SW6501-08	EVQQSB05G	8
SW6509	EVQPAD09K	1
SW6510-15	EVQQS307K	6
SW6516	VSS0249	1
SW6517,18	EVQQS307K	2
VR6501,02	EVUF3AF15B24	2
X6501	VSX0140	1
X6502	VSX0094	1
********	[VEP06915E]	
	MAIN	
	[VEP03920C]	

Ref.No.	Part No.	Pcs
	SQPB	
	[VEP06974A]	
	POWER DETECT	
C2001,02	ECEA1CKA220	2
C2003	ECEA0JKA470	1
C2004	ECUM1H471JCN	1
C2005	ECEA0JKA221	1
C2006	ECEA1CKA100	1
C2007	ECEA1HKA3R3	1
C2008	ECEA1CKA220	1
C2009	ECUM1H223KBN	1
C2010,11	ECEA1EKN3R3	2
C2012	ECUM1H472KBN	1
C2013	ECEA1CKA330	1
C2014	ECUM1H392KBN	1
C2015	ECUM1H104ZFN	1
C2016	ECEA1HKA010	1
C2017	ECEA1HKA4R7	1
C2022	ECQB1H223JF	1
C2023	ECUM1H103ZFN	1
C2025	ECQB1H682JF	1
C2026	ECUM1H221JCN	1
C2027	ECUM1H561JCN	1
C2301	ECEA0JKA470	1
C2312	ECQV1H474JZ	1
C2313	ECEA1CKA470	1
C2314	ECEA0JKA221	1
C2315	ECEA1HKA010	1
C2316	ECUM1E224ZFN	1
C2317-19	ECEA1HKA2R2	3
C2320-23	ECUM1H333KBN	4
C2325	ECEA1CKA470	1
C2326	ECEA0JKA470	1
C2327	ECEA1CKA101	1
C2329,30	ECUM1H221JCN	2
C2331	ECEA0JU102	1
C2332	ECUM1H102KBN	1
C2333	ECEA1HKA2R2	1
C2334	ECEA1HKN2R2	1
C2335	ECUM1H102KBN	1
C2336	ECEA1HKA2R2	1
C2337,38	ECUM1H102KBN	2
C2339	ECQV1H104JZ	1
C2340	ECEA1CKA470	1
C2341	ECUM1H103ZFN	1
C2342,43	ECUM1H333KBN	2
C2344-46	ECEA1CU471	3
C2347	ECEA1HKN2R2	1
C2348	ECEA0JKA221	1
C3001	ECEA1CKA220	1
C3002	ECUM1H470JCN	1
C3003	ECQB1H153JF	1
C3004,05	ECEA1HKA2R2	2
C3006	ECUM1H680JCN	1
C3007	ECUM1H820JCN	1
C3008	ECEA1CKA470	1
C3009	ECUM1H390JCN	1
C3010	ECEA1CKA100	1
C3012	ECUM1H180JCN	1
C3013	ECEA1CKA100	1
C3014	ECUM1H180JCN	1
C3015	ECEA1CKA470	1
C3016	ECUM1E224ZFN	1
C3017	ECUM1H104ZFN	1
C3018	ECEA0JU102	1
C3020	ECUM1H473ZFN	1
C3021	ECUM1H101JCN	1
C3022	ECEA1CKA220	1
C3023	ECUM1H103ZFN	1
C3025	ECEA1CKA100	1
C3027	ECUM1H103ZFN	1
C3028	ECEA0JKA470	1
C3029-33	ECUM1H103ZFN	5
C3034	ECUM1H180JCN	1

Ref.No.	Part No.	Pcs
C3035	ECUM1H103ZFN	1
C3036	ECUM1H330JCN	1
C3037	ECUM1H223ZFN	1
C3038	ECUM1H103ZFN	1
C3039	ECUM1H471JCN	1
C3046	ECUM1H220JCN	1
C3047	ECUM1H102JCN	1
C3048	ECQB1H562JF3	1
C3049	ECEA1CPK470B	1
C3050	ECQV1H104JZ	1
C3051	ECEA0JKA331	1
C3052	ECEA1CKA100	1
C3053	ECEA1HKN4R7	1
C3054	ECUM1H470JCN	1
C3055	ECEA1HKN4R7	1
C3056	ECUM1H220JCN	1
C3059	ECEA0JKA470	1
C3060	ECEA0JKN470	1
C3061	ECEA0JKA470	1
C3062	ECUM1H270JCN	1
C3063	ECUM1H104ZFN	1
C3065	ECUM1H270JCN	1
C3069	ECUM1H104ZFN	1
C3070	ECEA1EKA4R7	1
C3072	ECUM1H270JCN	1
C3073	ECUM1H560JCN	1
C3074	ECUM1H121JCN	1
C3075	ECUM1H151JCN	1
C3077	ECEA1CKA220	1
C3078	ERJ6GEYJ681	1
C3080	ECUM1H103ZFN	1
C3081	ECUM1H561JCN	1
C3082	ECEA0JKA470	1
C3083,84	ECUM1H103ZFN	2
C3094	ECUM1H220JCN	1
C3095	ECUM1H270JCN	1
C3501	ECUM1H103ZFN	1
C3502	ECUM1H560JCN	1
C3503	ECUM1H181JCN	1
C3505-07	ECUM1H103ZFN	3
C3508	ECEA1CKA470	1
C3509	ECUM1H103ZFN	1
C3510	ECEA0JKA101	1
C3511,12	ECUM1H103ZFN	2
C3513	ECEA1CKA470	1
C3514	ECUM1H103ZFN	1
C3516	ECUM1H151JCN	1
C3517	ECUM1H390JCN	1
C3518	ECUM1H681JCN	1
C3519	ECUM1H330JCN	1
C3520	ECUM1H220JCN	1
C3521	ECEA1CKA100	1
C3522,23	ECUM1H103ZFN	2
C3524	ECUM1H104ZFN	1
C3525	ECUM1H103ZFN	1
C3527	ECUM1H220JCN	1
C3528	ECEA1HKA4R7	1
C3529	ECUM1H104ZFN	1
C3530	ECUM1H103ZFN	1
C3531	ECEA1EKN4R7	1
C3532	ECEA1HKA4R7	1
C3534	ECUM1H103ZFN	1
C3535	ECUM1H680JCN	1
C3536	ECUM1H101JCN	1
C3537	ECUM1H270JCN	1
C3541	ECUM1H471JCN	1
C3542	ECUM1H270JCN	1
C3543	ECEA1CKA220	1
C3544	ECUM1H103ZFN	1
C3546	ECUM1H471JCN	1
C3547	ECUM1H102JCN	1
C3548	ECUM1H050DCN	1
C3549	ECUM1H104ZFN	1
C3550	ECEA1AKA221	1
C3551	ECUM1H101JCN	1

Ref.No.	Part No.	Pcs
C3552	ECEA1HKA010	1
C3554	ECEA1HFS4R7	1
C3555,56	ECEA1HKA2R2	2
C3557	ECEA1EKA4R7	1
C3558	ECUM1H103ZFN	1
C3559	ECQV1H474JZ	1
C3560	ECUM1H821JCN	1
C3561	ECQB1H393JF	1
C3563	ECEA1AKA101	1
C3564	ECUM1H152KBN	1
C3565	ECUM1H391JCN	1
C3566	ECUM1H820JCN	1
C3567	ECUM1H104ZFN	1
C3568,69	ECQV1H184JZ	2
C3571	ECUM1H180JCN	1
C3572	ECUM1H221JCN	1
C3573,74	ECEA1CKA100	2
C3581	ECUM1H560JCN	1
C3582	ECUM1H030DCN	1
C3583	ECUM1H103ZFN	1
C3586	ECUM1H220JCN	1
C3588-90	ECUM1H103ZFN	3
C3591	ECUM1H102JCN	1
C3593	ECUM1H270JCN	1
C3594	ECUM1H181JCN	1
C3596	ECQV1H104JZ	1
C3597	ECUM1H103ZFN	1
C3599	ECUM1H102KBN	1
C4001	ECUM1H221JCN	1
C4002	ECEA1CKA470	1
C4003	ECEA1HKA010	1
C4004,05	ECEA1CKA100	2
C4006,07	ECUM1E104KBN	2
C4008,09	ECEA1CKA100	2
C4010	ECEA1HKA010	1
C5005	ECEA1EK3R3	1
C5006	ECUM1H150JCN	1
C5007-09	ECUM1H330JCN	3
C5012,13	ECUM1H103ZFN	2
C5014	ECEA0JK470	1
C5015,16	ECUM1H103ZFN	2
C6001	ECUM1H104ZFN	1
C6004,05	ECUM1H104ZFN	2
C6006	ECEA1AKA330	1
C6007	ECUM1H104ZFN	1
C6008	ECUM1H220JCN	1
C6009	ECUM1H180JCN	1
C6010	ECEA1AKA220	1
C6011	ECUM1H104ZFN	1
C6012	ECQB1H332JF	1
C6013,14	ECUM1H271JCN	2
C6016-23	ECUM1H271JCN	8
C6025-28	ECUM1H271JCN	4
C6029,30	ECUM1H222KBN	2
C6033	ECEA0JKA101	1
C6103	ECEA0JKA221	1
C6104	ECEA0JKA331	1
C6105	ECEA1CKA470	1
C6201	ECQV1H104JZ	1
D2001,02	MA151WK	2
D2301,02	11EQS04	2
D2303	MA151K	1
D2304,05	MA153	2
D3001,02	MA151K	2
D3003	1SS283	1
D3004	MA151WK	1
D3007	MA721	1
D3010	MA151WK	1
D3501	MA4091	1
D3502	MA151K	1
D3504	MA151K	1
D3507	MA151K	1
D3508	MA151A	1
D6001-05	MA151K	5

Ref.No.	Part No.	Pcs
D6008	11EQS04	1
D6010	MA151K	1
D6101	11EQS04	1
D6201	8P2M	1
D6202	MA4062M	1
DL3002	VLD0089	1
DL3501	VLD0147	1
FL3002	VLF0499	1
FL3004	ELB4M022	1
FL3501	VLF0727	1
FL3502	VLF0299	1
IC2001	AN3727S	1
IC2004	LM358PS-R	1
IC2302	BA6439S	1
IC2303	MN1280-U	1
IC2304	LM393PS	1
IC2305,06	UPC4556G2	2
IC3001	VEFH03D	1
IC3003,04	NJM2233BMA	2
IC3006	AN3495K	1
IC3501	MN74HC4053S	1
IC3502	MSM6965-3RS	1
IC3503	VEFH04F	1
IC4001	NJM4558M	1
IC4002	BA6138	1
IC6001	MN67434VMEC	1
IC6002	LM358PS-R	1
IC6003	BA6219B	1
IC6004	MN1280R	1
IC6006	TC7W00F	1
J2301-05	ERJ6GEY0R00	5
J3008	ERJ6GEY0R00	1
J3014-16	ERJ6GEY0R00	3
J3018	ERJ6GEY0R00	1
J3020	ERJ6GEY0R00	1
J3023	ERJ6GEY0R00	1
J3501-03	ERJ6GEY0R00	3
J3505	ERJ6GEY0R00	1
J3507,08	ERJ6GEY0R00	2
J4001,02	ERJ6GEY0R00	2
J6003,04	ERJ6GEY0R00	2
J6007	ERJ6GEY0R00	1
J6101	ERJ6GEY0R00	1
L2001-03	VLQ0460	3
L2301	VLQ0460	1
L2303	VLP0083	1
L2304	VLQ0460	1
L2305	VLQEL05K102J	1
L3001	VLQEL05K680J	1
L3002	VLQEL05K121J	1
L3003	VLQ0460	1
L3004	VLQEL05K101J	1
L3005	VLQ0460	1
L3008	VLQ0460	1
L3009,10	VLQEL05K150J	2
L3012	VLQEL05K220J	1
L3013	VLQ0460	1
L3015	VLQEL05K560J	1
L3017	VLQEL05K470J	1
L3502	VLQEL05K820J	1
L3503	VLQEL05K151J	1
L3504-06	VLQ0460	3
L3508	VLQEL05K151J	1
L3509	VLQEL05K270J	1
L3510	VLQEL05K470J	1
L3511	VLQ0460	1
L3514	VLQEL05K681J	1
L3515,16	VLQ0460	2
L3517	VLQEL05K6R8J	1
L3518	VLQEL05K101J	1

Ref.No.	Part No.	Pcs
L3519	VLQEL05K120J	1
L3520	VLQEL05K150J	1
L3522	VLQEL05K221J	1
L3523	VLQEL05K681J	1
L3524	VLQEL05K391J	1
L3525	VLQEL05K470J	1
L3526	VLQEL05K560J	1
L3531	VLQEL05K270J	1
L3532	VLQEL05K5R6J	1
L4001	VLQEL05K101J	1
L5001	VLQEL05F101J	1
L5002	VLQ0188J270	1
L5003	VLQEL05F270J	1
L5004	VLQEL05F150J	1
L6002	VLP0083	1
L6003	VLQ0460	1
L6004-07	VLQEL05K221J	4
P2301	VJP3078	1
P2302	VJS3537A015G	1
P2303	VJP3529	1
P3501	VJS3537A020G	1
P4001-03	VJP3186A018W	3
P4004	VJS2329	1
P6001	VJS3537A013G	1
P6002	VJP1229T	1
P6003	VJP3079	1
P6004	VJS3537A012G	1
P6005	VJS3537A020G	1
P6007,08	VJS1410	2
P6201	VJR0406	1
PS5001	VJR0406	1
Q3001	MSB709-R	1
Q3002	MSD601-R	1
Q3003	MSC2295-B	1
Q3004	MSD601-R	1
Q3010	MSB709-R	1
Q3011	MSD601-R	1
Q3013	2SA1022-B	1
Q3014,15	MSC2295-B	2
Q3501,02	MSD601-R	2
Q3503,04	MSC2295-B	2
Q3505,06	MSB709-R	2
Q3507	MSD601-R	1
Q3508	2SB642	1
Q3509	2SB643	1
Q3510	MSC2295-B	1
Q3511	MSD601-R	1
Q3512	MSC2295-B	1
Q3514	MSD601-R	1
Q3516	MSC2295-B	1
Q3517,18	MSB709-R	2
Q5001	MSB709-R	1
Q5002	MSD601-R	1
Q5003	2SA1022-B	1
Q5005	XN1501	1
Q5006	MSB709-R	1
Q5007	MSC2295-B	1
Q5008	MSB709-R	1
Q5009-13	MSC2295-B	5
Q6001	MSB709-R	1
Q6004	2SD601A	1
Q6101	2SB644-S	1
QR2001	XN1213	1
QR2301	MRN2404	1
QR2302	MRN1404	1
QR3001	MRN1404	1
QR3005	MRN1403	1
QR3006	MRN2403	1
QR3007	MRN1403	1
QR3009	DTC363EK	1
QR3010-12	MRN1403	3

Ref.No.	Part No.	Pcs
QR3013,14	MRN1404	2
QR3501	MRN1404	1
QR3505	MRN1402	1
QR3506	MRN2402	1
QR3507	DTC363EK	1
QR3509,10	XN1213	2
QR3514	DTC363EK	1
QR3515	MRN1403	1
QR3517	MRN1404	1
QR3518	XN1113	1
QR3519	XN1213	1
QR6001	XN1211	1
QR6005,06	XN1213	2
QR6008	MRN1404	1
QR6101	MRN1402	1
R2001	ERJ6GEYJ562	1
R2002	ERJ6GEYJ682	1
R2003	ERJ6GEYJ273	1
R2004	ERJ6GEYJ563	1
R2005,06	ERJ6GEYJ223	2
R2007	ERJ6GEYJ272	1
R2008	ERJ6GEYJ221	1
R2009	ERJ6GEYG622	1
R2011,12	ERJ6GEYJ224	2
R2013,14	ERJ6GEYJ223	2
R2015	ERJ6GEYJ104	1
R2017	ERJ6GEYJ471	1
R2027	ERJ6GEYJ473	1
R2030	ERJ6GEYJ683	1
R2306	ERJ6GEYJ332	1
R2310	ERJ6GEYG432	1
R2311	ERJ6GEYJ684	1
R2312	ERJ6GEYG473	1
R2313	ERDS2TJ330	1
R2314	ERJ6GEYJ102	1
R2315	ERDS2TJ330	1
R2316	ERX12SJR47	1
R2317	ERDS2TJ330	1
R2318	ERJ6GEYJ681	1
R2321	ERJ6GEYJ103	1
R2322	ERJ6GEYJ224	1
R2323	ERJ6GEYJ103	1
R2324	ERJ6GEYJ224	1
R2325-28	ERJ6GEYJ103	4
R2329,30	ERJ6GEYJ473	2
R2331	ERJ6GEYJ472	1
R2332	ERJ6GEYJ333	1
R2333	ERJ6GEYJ332	1
R2334	ERJ6GEYJ472	1
R2335	ERJ6GEYJ333	1
R2336	ERJ6GEYJ332	1
R2337	ERJ6GEYJ102	1
R2338	ERJ6GEYJ105	1
R2339	ERJ6GEYJ821	1
R2340	ERJ6GEYJ222	1
R2341	ERDS1TJ561B	1
R2342,43	ERJ6GEYJ102	2
R3004	ERJ6GEYJ223	1
R3005	ERJ6GEYJ102	1
R3006	ERJ6GEYJ223	1
R3007	ERJ6GEYF124	1
R3008	ERJ6GEYJ102	1
R3009	ERJ6GEYJ182	1
R3010	ERJ6GEYJ332	1
R3011	ERJ6GEYJ182	1
R3012	ERJ6GEYJ103	1
R3013	ERJ6GEYJ272	1
R3014	ERJ6GEYJ123	1
R3015	ERJ6GEYJ222	1
R3017,18	ERJ6GEYJ331	2
R3019	ERJ6GEYJ750	1
R3020	ERJ6GEY0R00	1
R3021	ERJ6GEYJ471	1
R3022	ERJ6GEYJ562	1

Ref.No.	Part No.	Pcs
R3023,24	ERJ6GEYJ273	2
R3025	ERJ6GEYJ122	1
R3026	ERJ6GEYJ152	1
R3027	ERJ6GEYJ223	1
R3028	ERJ6GEYJ681	1
R3029	ERJ6GEYJ102	1
R3030	ERJ6GEYJ271	1
R3031	ERJ6GEYJ122	1
R3032	ERJ6GEYJ123	1
R3033	ERJ6GEYJ822	1
R3034	ERJ6GEYJ102	1
R3035	ERJ6GEYJ471	1
R3037	ERJ6GEYJ471	1
R3052	ERJ6GEYJ391	1
R3054	ERJ6GEYJ824	1
R3055,56	ERJ6GEYJ102	2
R3057	ERJ6GEYJ152	1
R3058	ERJ6GEYJ103	1
R3059	ERJ6GEYJ273	1
R3060	ERJ6GEYJ333	1
R3061	ERJ6GEYJ102	1
R3063	ERJ6GEYJ103	1
R3064	ERJ6GEYJ332	1
R3065	ERJ6GEYJ101	1
R3069	ERJ6GEYJ102	1
R3071	ERJ6GEYJ122	1
R3072	ERJ6GEYJ273	1
R3073	ERJ6GEYJ561	1
R3074	ERJ6GEYJ473	1
R3075	ERJ6GEYJ821	1
R3076	ERJ6GEYJ681	1
R3078	ERJ6GEYJ822	1
R3083	ERJ6GEYJ822	1
R3084	ERJ6GEYJ333	1
R3086	ERJ6GEYJ222	1
R3087	ERJ6GEYG102	1
R3091	ERJ6GEYJ103	1
R3092	ERJ6GEYJ332	1
R3093	ERJ6GEYJ183	1
R3094	ERJ6GEYJ103	1
R3110	ERJ6GEYJ330	1
R3111	ERJ6GEYJ222	1
R3112	ERJ6GEYJ103	1
R3113	ERJ6GEYJ223	1
R3114	ERJ6GEYJ122	1
R3118	ERJ6GEY0R00	1
R3120	ERJ6GEY0R00	1
R3501,02	ERJ6GEYJ102	2
R3503	ERJ6GEYJ104	1
R3504	ERJ6GEYJ561	1
R3507	ERJ6GEYJ102	1
R3509	ERJ6GEYJ473	1
R3510	ERJ6GEYJ102	1
R3511	ERJ6GEYJ330	1
R3512	ERJ6GEYJ473	1
R3513	ERJ6GEYJ222	1
R3514	ERJ6GEYJ333	1
R3515-18	ERJ6GEYJ473	4
R3519	ERJ6GEYJ333	1
R3520	ERJ6GEYJ222	1
R3521	ERJ6GEYJ103	1
R3522	ERJ6GEYJ222	1
R3523	ERJ6GEYJ102	1
R3524	ERJ6GEYJ272	1
R3525	ERJ6GEYJ103	1
R3526	ERJ6GEYJ223	1
R3527	ERJ6GEYJ104	1
R3528	ERJ6GEY0R00	1
R3529,30	ERJ6GEYJ821	2
R3533	ERJ6GEYJ222	1
R3534	ERJ6GEYJ330	1
R3535	ERJ6GEYJ473	1
R3536	ERJ6GEYJ682	1
R3537	ERJ6GEYJ820	1
R3538	ERJ6GEYG680	1

Ref.No.	Part No.	Pcs
R3539	ERJ6GEYJ222	1
R3540	ERJ6GEYJ561	1
R3542	ERJ6GEYJ822	1
R3543	ERJ6GEYJ272	1
R3544	ERJ6GEYJ103	1
R3545	ERJ6GEYJ183	1
R3547	ERJ6GEYJ333	1
R3548	ERJ6GEYJ473	1
R3549	ERJ6GEYJ222	1
R3550	ERJ6GEYJ330	1
R3551	ERJ6GEYJ182	1
R3552	ERJ6GEYJ471	1
R3553	ERJ6GEYJ102	1
R3554	ERJ6GEYJ273	1
R3555	ERJ6GEYJ183	1
R3556	ERJ6GEYJ472	1
R3557	ERJ6GEYJ682	1
R3560	ERJ6GEYJ821	1
R3561	ERJ6GEYJ221	1
R3562	ERJ6GEYJ103	1
R3564	ERJ6GEYJ182	1
R3565	ERJ6GEYJ473	1
R3566	ERJ6GEYJ102	1
R3567	ERJ6GEY0R00	1
R3568,69	ERJ6GEYJ103	2
R3572	ERJ6GEYJ102	1
R3574	ERJ6GEYJ271	1
R3575	ERJ6GEYJ102	1
R3576	ERJ6GEYJ222	1
R3579	ERJ6GEYJ682	1
R3580	ERJ6GEYJ123	1
R3581	ERJ6GEYJ473	1
R3582	ERJ6GEY0R00	1
R3585	ERJ6GEYJ473	1
R3588	ERJ6GEYJ222	1
R3589	ERJ6GEYJ681	1
R3590	ERJ6GEYJ561	1
R3591	ERJ6GEYJ473	1
R3592	ERJ6GEYG431V	1
R3593	ERJ6GEYJ561	1
R3596	ERJ6GEY0R00	1
R3600,01	ERJ6GEYJ102	2
R3605	ERJ6GEYJ103	1
R3606	ERJ6GEYJ102	1
R3609	ERJ6GEYJ182	1
R3610	ERJ6GEYJ101	1
R3611	ERJ6GEYJ472	1
R3613	ERJ6GEY0R00	1
R4001,02	ERJ6GEYJ561	2
R4003	ERJ6GEYJ100	1
R4004	ERJ6GEYJ273	1
R4007,08	ERJ6GEYJ182	2
R4009,10	ERJ6GEYJ562	2
R4011,12	ERJ6GEYJ104	2
R4013,14	ERJ6GEYJ103	2
R5003	ERJ6GEYJ102	1
R5004	ERJ6GEYJ271	1
R5005	ERJ6GEYJ472	1
R5006	ERJ6GEYF124	1
R5007	ERJ6GEYJ223	1
R5012	ERJ6GEYJ563	1
R5013	ERJ6GEYG123	1
R5014	ERJ6GEYG223	1
R5016,17	ERJ6GEYJ102	2
R5018	ERJ6GEYJ123	1
R5019	ERJ6GEYJ682	1
R5020	ERJ6GEYJ102	1
R5021,22	ERJ6GEYJ681	2
R5023	ERJ6GEYJ271	1
R5025	ERJ6GEYJ102	1
R5027	ERJ6GEYJ391	1
R5028,29	ERJ6GEYJ102	2
R5030	ERJ6GEYJ471	1
R5031	ERJ6GEYJ102	1
R6001	ERQS2CKG2000	1

Ref.No.	Part No.	Pcs
R6002	ERJ6GEYJ271	1
R6003,04	ERJ6GEYJ272	2
R6005	ERJ6GEYG244V	1
R6006	ERJ6GEYJ153	1
R6007	ERJ6GEYJ333	1
R6008	ERX1SJ1R8P	1
R6009	ERJ6GEYG112	1
R6010	ERJ6GEYJ102	1
R6011	VRE0034E103	1
R6012	ERJ6GEYJ332	1
R6013	VRE0034E103	1
R6014	ERJ6GEYJ564	1
R6015	VRE0034E512	1
R6016	ERJ6GEYJ103	1
R6017	ERJ6GEYJ471	1
R6018	ERJ6GEYJ222	1
R6019	ERJ6GEYJ683	1
R6020,21	ERJ6GEYJ223	2
R6022	ERJ6GEYJ103	1
R6023	ERJ6GEYJ683	1
R6024-26	ERJ6GEYJ333	3
R6027	ERJ6GEYJ223	1
R6028-34	ERJ6GEYJ102	7
R6035	ERJ6GEYJ223	1
R6036-38	ERJ6GEYJ102	3
R6039	ERJ6GEYJ272	1
R6040	ERJ6GEYJ221	1
R6041	ERJ6GEYJ272	1
R6042	ERJ6GEYJ221	1
R6045	ERJ6GEYJ333	1
R6052-55	ERJ6GEYJ103	4
R6056,57	ERJ6GEYJ471	2
R6058	ERJ6GEY0R00	1
R6059	ERJ6GEYJ471	1
R6061	ERJ6GEYJ222	1
R6066	ERJ6GEYJ103	1
R6067	ERJ6GEYJ562	1
R6068	VRE0034E472	1
R6069	ERJ6GEYJ333	1
R6070	ERJ6GEYJ103	1
R6101	ERDS2TJ103	1
R6104	ERDS2TJ121	1
R6105	ERJ6GEYJ102	1
R6114	ERJ6GEYJ472	1
R6201	ERDS2TJ101	1
R6202	ERDS2TJ102	1
VR2001	EVMF6SA00B23	1
VR2002	EVMF6SA00B15	1
VR2004	EVMF6SA00B15	1
VR2006-08	EVMF6SA00B15	3
VR3001	EVMF6SA00B24	1
VR3002	EVMF6SA00B13	1
VR3004	EVMF6SA00B52	1
VR3005	EVMF6SA00B13	1
VR3007	EVMF6SA00B52	1
VR3008	EVMF6SA00B24	1
VR3501	EVMF6SA00B23	1
VR3502	EVMF6SA00B14	1
VR3503	EVMF6SA00B52	1
VR3504,05	EVMF6SA00B53	2
VR3506	EVMF6SA00B52	1
VR4001	EVMF6SA00B54	1
VR4002,03	EVMF6SA00B23	2
VR4004,05	EVMF6SA00B53	2
VR4006	EVMF6SA00B54	1
W1	ERJ6GEY0R00	1
W2	ERJ6GEY0R00	1
W2,W3	ERJ6GEY0R00	2
W3-W9	ERJ6GEY0R00	7
W10-21	ERJ6GEY0R00	12
X3501	VSX0225	1
X3502	VSX0162	1

Ref.No.	Part No.	Pcs
X6001	VSX0296	1
********	[VEP00S63C]	
	MECHANISM	
	CONNECTION	
IC1501,02	ON1387	2
P1503	VJS3316A002	1
P1504	VJS3317A004	1
P1505	VJS3493	1
SW1501	VES0695	1

Ref.No.	Part No.	Pcs

Ref.No.	Part No.	Pcs

Ref.No.	Part No.	Pcs

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01588B	P.C.BOARD W/COMPONENT		
		POWER (1)		
	VMC0811	SPRING	1	
	VMZ1608	BARRIER	1	
	VSC3778	SHIELD CASE	1	
	VMZ1305	BARRIER	2	
	VMZ0965	BARRIER	2	
	VEP01589A	P.C.BOARD W/COMPONENT		
		POWER (2)		
	VMZ1608	BARRIER	2	
	VJF0318	HOLDER	2	
	VMZ0965	BARRIER	4	
	VEP04427D	P.C.BOARD W/COMPONENT		
		REAR JACK		
	VEP00U79B	P.C.BOARD W/COMPONENT		
		REAR JACK SUB		
	VJH0744	JACK PLATE	1	
	XTV3+8FFZ	SCREW	2	
	XTV3+10GFZ	SCREW	3	
	VEP06914E	P.C.BOARD W/COMPONENT		
		FRONT		
	VEP06916C	P.C.BOARD W/COMPONENT		
		FRONT JACK		
	VJF0948	HOLDER	1	
	VMX0473	SPACER	3	
	VEP06915E	P.C.BOARD W/COMPONENT		
		MAIN		
	VEP03920C	P.C.BOARD W/COMPONENT		
		SQPB		
	VEP06974A	P.C.BOARD W/COMPONENT		
		POWER DETECT		
	VKC0295	P.C.B. SPACER	2	
	VKC0421	P.C.B. HINGE	3	
	VKC0422	GUARD SPACER	2	
	VMC0075	SPRING	1	
	VSC3405	SHIELD CASE	1	

443

Panasonic

Printed in Japan
S3180405NTk